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UNIVERSITY OF MASSACHUSETTS
ANNUAL REPORTS
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FINANCIAL

The Independent University
In Time of Testing

Report of the President

FINANCIAL

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The Independent University In Time of Testing

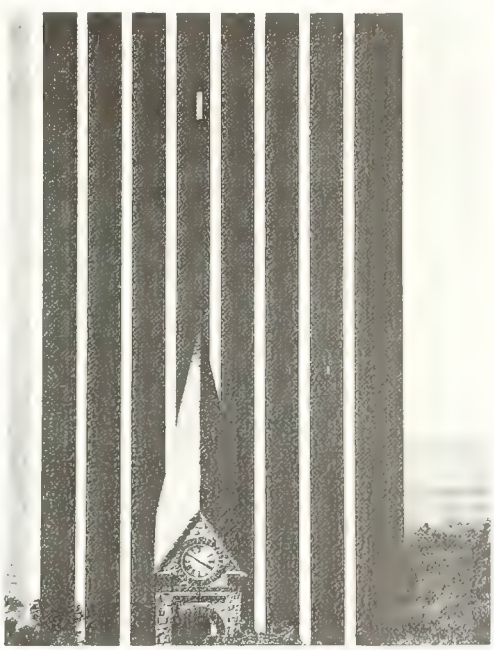
By any standard, historical or comparative, 1975 has been a hard, grinding year for the University of Massachusetts, but it has not been unconstructive. Last year I wrote of the constant aims in learning, teaching and service that I hoped the University would continue to pursue during a period when resources were becoming scarcer and demands heavier. This year, I want to pay special attention to that worsening environment -- to the changing context in which this and other public universities are working midway through the 1970s.

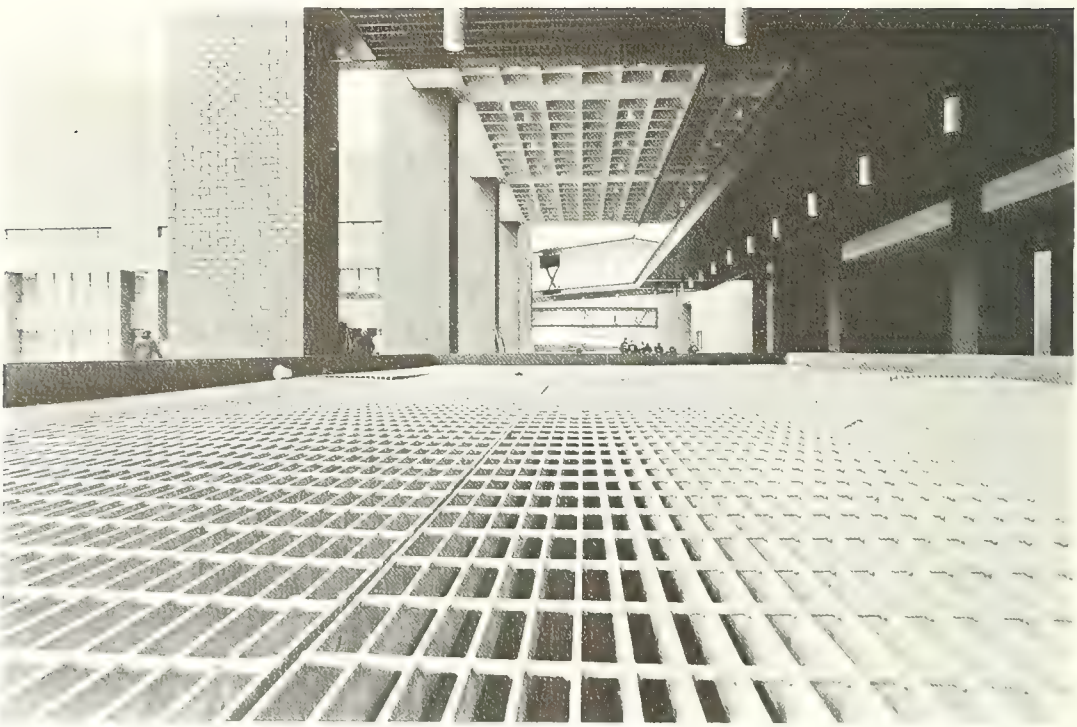
The environment is first of all harsh. The University faces the inescapable reality of a declining economy and limited resources at a time when a growing constellation of outside forces is straightforwardly unsympathetic to the purposes of an independent public university or at best skeptical of the effectiveness with which we carry out these purposes. This skepticism is in sharp contrast to the supportive atmosphere in which the University's great decade of growth occurred in the 1960s. Separately and together these forces find their expression in media and public policy. They have led to stronger constraints on the resources available to us and on our flexibility in managing the resources at our disposal than could be expected from the economic realities alone.

Second, internal operations have become more difficult, not only because of the outside forces, but also as a result of the inevitable sorting and settling that must occur after an institution has grown as rapidly as the University of Massachusetts. In 1975 the need to strengthen internal management and administrative processes -- the necessity for increased professionalization in planning, budgeting and management -- became obvious as the pressures from outside increased.

But with all the unsympathetic pressures from outside and the difficulties regrouping inside, the past year has had some constructive outcomes; some because of these forces, some despite them. We made special progress at our Worcester campus -- progress in which the direction and programs of the Medical Center were charted, I think, for a number of years to come. For all the protracted delay in the governmental processes of the Commonwealth in 1975, we have made progress in our financial management, especially in the introduction of our austerity program. We have confronted a regrettable but necessary increase in tuition. We secured special advances in particular programs and places -- as represented by the decision of the John F. Kennedy Library Corporation to place the President's Library on our Harbor Campus -- of which we can be proud.

Nonetheless, we have just passed through an extraordinary year of testing. We persevered, but unless conditions change, the outlook is not bright. All who know and cherish the University -- faculty, staff, alumni, students, friends -- need to understand our growing peril.





The External Environment

Even before 1975 began, storm signals relating to our budget and development appeared. In December, 1974, there were published reports of proposals for across-the-board cuts in public programs that in their initial form would have reduced the University budget below that of the Amherst campus alone for the previous fiscal year. Budget language had already imposed restrictions concerning the reporting of contract hours (measuring the number of hours faculty spend in classrooms, as if that were representative of more than an fraction of their professional time) and barring the award of merit increases as a component of faculty compensation. These indications of danger led to the University's imposition of an internal austerity program -- to anticipate hard financial times ahead. They led as well to my decision to speak out on the subject of the budget. On December 12, 1974, I said that the adoption of a budget at the level of the proposed target would "strike at the heart of the University," and deplored the disposition to waste a great resource for the Commonwealth's people, built over decades.

As the year wore on, and the budget faced delay after delay, the true nature of the Commonwealth's economic plight became clear. As a consequence, the Trustees voted in August to reduce the original budget request of $118 million -- a fair and honest budget for continuing progress -- to a bare-bones request of $103 million. The Administration, in contrast, was recommending just over $90 million -- a budget which if enacted would have required major layoffs and program curtailments. In the end, the appropriation enacted was $101 million, including funds necessary to open the University Hospital at Worcester.

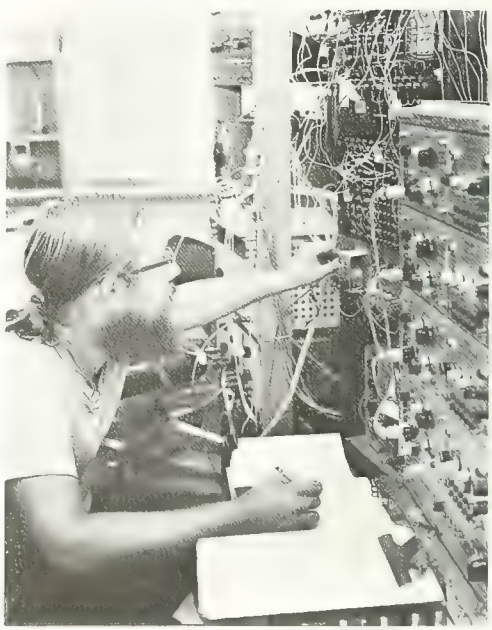
But the budget also contained language confining and constricting the University in its management of funds. And administrative action in the state comptroller's office further sought to constrain our capacity for effective management. For example, the authority granted to the University to transfer appropriated funds between and among the sixteen subsidiary accounts, always used with great discretion, is critical to the Trustees' ability to respond to changing circumstances. Efforts to restrict this authority cannot result in financial savings to the Commonwealth or in improved management of the University, but they do have a chilling effect on the University's clear need to remain independent of day-to-day political interference.

Similarly, the academic institution's personnel requirements differ in character from those of other public agencies. A university must recruit and make commitments in early spring so as to fill the substantial numbers of positions, particularly in the ranks of junior faculty members it requires to meet classes the next September. Yet the required procedures for filling vacant positions, particularly during the interim budget period of late summer and fall, proved a serious impediment to our ability to meet student needs. Laudable in its intent -- requiring agencies of the Commonwealth to examine closely their personnel needs -- the so-called "critical needs" process is simply incompatible with the operational patterns of any institution of higher education. By the random operation of resignations and retirements it has left a number of departments severely short of faculty and support staff, while others are much less seriously affected. This random pattern of deprivation is inconsistent with any rational approach to program reductions that may be warranted in hard economic times.

Extraordinary efforts by the Board of Trustees, the Office of the President, the Chancellors, and the General Court have all served to help mitigate the destructive effects of the budget restrictions and delays. But by year's end there was no doubt that a substantial effort had been made to subvert the autonomy and independence granted the University in 1962. That grant of autonomy resulted from the findings of a Legislative Commission that needless day-to-day external involvement in the routine personnel and financial operations of the University severely inhibited the prospect of major improvements in the quality of the instruction. The

establishment of the University's independence in 1962 began in earnest its march toward the status of a great institution of higher learning. Yet that independence -- tempered, of course, by the limits of legislative appropriation and by the responsibility for full accountability to the public -- is no less vital in a period of financial restraint. Unless legislative restrictions and executive incursions upon the University's independence are resolved early in 1976, the University's health will be in serious jeopardy.

Of equal importance for 1976 is a clear reaffirmation of the primacy of governance by lay boards. The evolution of institutions in the public sector in the decade since the "Willis-Harrington" study clearly makes it timely to reconsider the organizational structure for managing and coordinating the Commonwealth's institutions of higher education. Yet, as they did in 1973, the University and its sister institutions must resist efforts to bring the management of the academic enterprise under the direct control of the executive branch. It must assert its statutory mandate that the University "...shall be governed solely by the Board of Trustees...Said board shall not in the management of the affairs of the university be subject to, or superseded in any such authority by, any other state board, bureau, department or commission..."



Managing a Great Resource

While retaining as much as possible the involvement of faculty and students in administrative matters and assuring wide-spread participation in decision making, the administration of higher education must increasingly become a highly professional, highly systematic enterprise. The activities of the University of Massachusetts involve sizable numbers of people and the management of a substantial capital investment. The University has three campuses, nine research and experimental stations and a total operating budget of $160 million. It occupies 4,338 acres of land and maintains 437 buildings. A labor-intensive institution, it employs more than 7,000 persons in 2,193 faculty positions, 596 professional positions, and 2,498 classified positions. More than 32,000 students are enrolled. So the development and execution of academic programs, the scheduling of classes and other activities, and the maintenance of the health and well-being of the individuals involved do not just happen naturally. Especially after a time of rapid growth, establishing clear and direct lines of authority and reporting, effective ways of consultation, and ways and means to appraise results is clearly imperative.

As early as February, 1974, the Board of Trustees recognized the changing circumstances and the need for careful planning and organization. Building on the arrangements that I described in my last report, and acknowledging the shift in academic focus across the country from the "maintenance of peace" to educational innovation and fiscal management, the Board authorized a study of the comparative compensations awarded University administrators and of management effectiveness. That study, conducted by the Hay Associates of Philadelphia and entitled "The Organization of Administrative Resources Within the University", was designed to compare compensation patterns on a national basis and study the organizational effectiveness of our operation, including a commentary on structural relations and organizational design.

The study's first conclusions, reported in the spring of 1975, established the fact that University salary patterns for the President, Chancellors, Vice Chancellors, Medical Dean and other administrative officers, were conservative according to national standards. They also indicated the need for greater professional refinement in the development of staffing patterns. Even as that study was in progress, other internal developments indicated the need for further attention to management practices. The discovery of fiscal irregularities in the management of external grants and contracts arose in late December, focusing on the School of Education in Amherst. Although the scope of these issues remains very limited both in terms of personnel and of finances involved, the media commentary that followed led to a comprehensive response on the part of the Board.

The University engaged the firm of Coopers & Lybrand to audit, evaluate, and advise the University on the appropriateness of its existing fiscal accounting and administrative control. It also appointed a five-member visiting committee of nationally known educators, led by John Goodlad of the University of California at Los Angeles, to take a searching and critical look at the programs, organization and future direction of the School of Education -- an inquiry that coincided with an appraisal undertaken by the Faculty Senate at Amherst.

We were reassured by both internal and external program reviews that the academic programs, organization, and governance of the School of Education reflected solid achievements. The leadership that the School had demonstrated in educational innovation, as well as the diversity and flexibility of its programs, was documented, and the question of academic standards was substantially resolved.

The findings of Coopers & Lybrand were essentially that grant and contract administration, not only in the School of Education but throughout the University, could be significantly improved by

more careful budgeting, more precise documentation, and a well-organized system in which principal investigators and administrative officers work together to assure that expenditures are consistent with original program designs. While the external reviews were underway, the University, building upon the findings and recommendations of the internal auditing staff of the Treasurer's Office, established an interim revised pattern of grant and contract administration in April, 1975. The Amherst and Boston campuses now have offices of grant and contract administration and functional oversight is now a regular responsibility of the Office of the President. Department chairpersons, as well as deans, have been asked to take a more active role in reviewing grant and contract proposals and a series of detailed recommendations with respect to the processing of grant proposals, awards and implementation is now in the process of adoption.

In June, the Board moved to take further steps to increase management and planning capacity. It authorized the establishment of the position of Vice President for Management and Business Affairs, and it directed that the Management Systems and Administrative Data Processing programs of the University be established on a "common services" basis. It also provided for a review process in evaluating organization and personnel policy changes that would assure consistent approaches throughout the University.

Changes in management and organizational patterns are always complex matters, and especially so in an academic institution. The Hay Study, the School of Education appraisals, and the Board actions set off a flurry of understandable concern, especially among members of the faculty. Though the Hay Study was released to the news media and limited numbers of copies were distributed on each campus, it was not widely enough disseminated to forestall concern about its content and nature. Accordingly, throughout the summer and fall, members of the Board of Trustees and I met with faculty groups on all campuses to try to make clear the essentially managerial and administrative nature of the report's recommendations. The fall meeting of the Committee on Faculty and Educational Policy devoted itself almost entirely to this concern, and invited reports from faculty groups early in 1976. In the meantime, we have delayed implementation of all but the most critical aspects of the Board's action.

It is important to emphasize that the year's internal restructuring is wholly consistent with the organizational approach established by the Trustees in 1969 in their acceptance of the so-called "Marcus Report". Over the past decade or so, two types of patterns or organization have emerged for universities with more than one campus. The first pattern has a major campus, with branches; direction and control flow from the large, "original" campus, and the branches undertake limited missions of a largely similar character. The second model is the "system" approach, in which essentially non-academic common services are pooled and policy concerns are expressed to outside parties by a central administration. The development of academic goals and missions goes forward with substantial autonomy and flexibility on each campus, subject to the overall review of the Board of Trustees.

I spoke of my interest in this kind of flexibility in academic initiative at the time of my inaugural in 1970, when I said I had no desire to lead "cookie-cutter campuses". In the subsequent six years, I have not been moved to change this view. I believe that academic missions properly begin at the initiative of the campuses, subject to availability of resources and to considerations of redundancy. I appreciate that no academic community places high priority on administrative activities, but I am persuaded that effective administration can do much to improve academic performance and enrich the lives of students and faculty alike. Certainly, 1975 has demonstrated that where effective management does not exist, the potential for damage to the reputations of individuals and the institution is very high.

The Budget Process

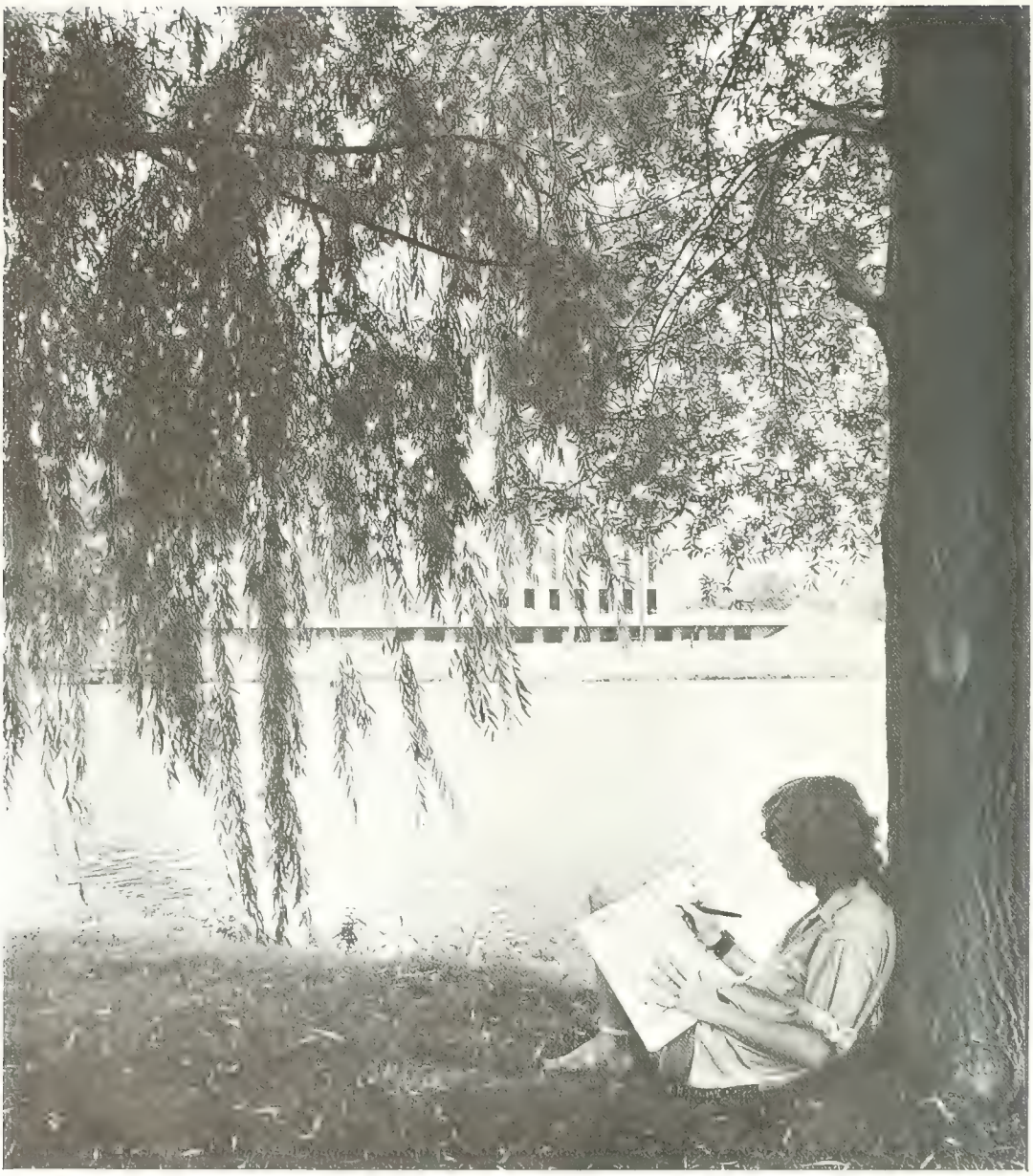
The budget process commanded much internal administrative attention throughout 1975 as the failure to enact appropriations in a timely and customary basis became more extended. Anticipating major budgetary difficulties, we imposed an austerity program within the University at the onset of the year. Our initial 1976 budget requests froze both faculty growth and new enrollment except in a few non-traditional programs and in the Medical School. We imposed a freeze on all vacant positions and all non-personnel reserves; salary increases associated with promotion were deferred. We made substantial reductions in utility and fuel usage. As a result, the University achieved substantial savings -- about $3.8 million -- in the closing months of the last fiscal year.

These anticipatory defensive positions served as well as the year went on, helping to establish our credibility with the General Court, but they produced hardships at the department and college level, where vacancies appeared on an erratic basis as the result of resignations or death and resources were accordingly skewed. The University's Office of the Budget and those on each campus performed in an heroic fashion, both in terms of hours spent trying to manage the problem and of ingenuity in coping with one scarcity and shortage after another. The Board, in a special meeting in September, provided the authority which allowed us to meet payrolls and continue operations throughout the fall; had we been forced to shut down or seriously curtail contract commitments, the damage to the University in terms of national reputation and prestige would have been nothing short of disastrous.

And I am grateful to the leadership and the members of the General Court for their continued understanding and support of the University in a year that was difficult for all.

The Board of Trustees also faced up to fiscal reality in December, 1975, by providing for a balanced and gradual increase in tuition charges over the next three years. The increases were made potentially less burdensome by substantial growth in federal student aid funds and by the Board's determination to exercise its authority to grant tuition waivers as a component of student financial aid packages. Understandably, the action was not popular with student leadership or with the student body as a whole, but it has helped to meet a growing and increasingly articulate external pressure for imposition of much more substantial increases.

It is important however, to emphasize that the internal adjustments have had their costs, and they have been heavy. Although the University perservered this year, it cannot use the same strategies in any succeeding ones.



Some Major Steps Forward

The sharp change in support and appreciation for the University and the energy and attention that were absorbed in making an appropriate internal adjustment for planning and management should not obscure the fact of the inherent strength and capabilities of the University. Indeed the steps forward this year under adverse conditions testify particularly impressively to our ability to adjust to the times and continue to carry out our mission.

Worcester

The most visible and long anticipated achievement for the University was the substantial completion of the Medical Center at Worcester. In planning and development for more than a decade, the University Hospital opened for outpatient care in mid-year, and accepted its first inpatients on January 18, 1976. The investment by the Commonwealth has already begun to pay substantial dividends under the leadership of Dean Lamar Soutter, with the assembly of a first-rate faculty, construction of superb facilities, and the graduation of two classes of young doctors aiming chiefly toward careers in family practice. The excellence of the University Medical School has been verified by two accreditation committees and by a special visiting committee appointed by the Trustees in 1974 and led by Dr. Kenneth Crispell, Vice President for Health Sciences at the University of Virginia. The visiting committee provided substantial assistance in the development of a hospital consortium and guidance in establishing the character of the hospital.

It was in 1975 that the cumulative effects of all these efforts came together. Doctor Soutter was forced to retire for reasons of health last February. By mid-summer a search committee had reported the results of an extraordinarily effective national canvass and unique consultations with community and other professional interest groups. All the individuals the Committee proposed were individuals of the highest medical achievement and promise. After long and serious consideration, I recommended to the Board the appointment of Dr. Roger Bulger of Washington D.C., who assumed office February 2, 1976.

In the intervening period, Dr. R. W. Butcher, as Acting Dean, Dr. H. Brownell Wheeler, chief of staff of the Hospital, and all of the faculty and students of the Medical School carried out their programs and plans with dedication, enthusiasm, and effectiveness. Of particular importance at a time when the legislature was considering the first operating budget for the hospital, was a statement of goals produced by the School and endorsed by the Board of Trustees. Realistically grounded in the intellectual and professional requirements of medicine, uncompromising in its commitment to excellence, the statement is also a sensitive recognition of the new directions in which medicine and the medical profession must move in the next several years: to join other health care professions and to improve health care delivery. The events of this year have done much to quiet the controversy that had been associated with the Medical School since its inception. Although uncertainty will continue as the hospital opens, it is safe to say that the Commonwealth has developed a public medical capability equal to any in the country.

Boston

The University of Massachusetts at Boston was established in the mid-60s, when the tidal wave of high school graduates was at its crest, and the need to provide quality liberal arts education at low cost was at its strongest. It was in that era of euphoria that the original academic plans of the Boston campus were formulated as six colleges of a size intended to provide some intimacy and largely established on the traditional liberal arts pattern. By 1970, it was clear that the plan needed to be brought up to date both in numbers and in content. Accordingly, the Trustees modified the planned size of Boston's Harbor Campus and authorized establishment of the third college as a College of Public and Community Service, an innovative and unique effort to provide

increased learning to those seeking professional careers in government and the community.

In the last few years, the need for stronger professional education has become clear. This year, Chancellor Golino presided over inauguration ceremonies for the new College of Professional Studies -- College IV -- in which the first program offerings are in Management Sciences. Dean Richard Freeland was selected to lead this endeavor, and a core faculty has been assembled. This College marks again the establishment of innovative curricula and special programs not duplicated elsewhere in the University and the response in terms of enrollment has been more enthusiastic than anyone anticipated.

Boston Public Schools

The Institute for Learning and Teaching has been a special part of the University at Boston for several years, working with the Boston School Department, parochial schools, and other school systems in the metropolitan area in an effort to improve the quality of urban education. Last year the Institute began a special program, "Another Course to College", which undertakes to indentify youngsters in their sophomore year in Boston high schools who could benefit from special academic support from a group of Boston teachers and University faculty members in order to stretch aspirations and improve the capacity to realize them. This year, by federal court order, the University was paired with the Boston community school district that includes South Boston High School, the McCormack Middle School, the Paul A. Dever School, and other middle and elementary schools, in seeking to meet the special obligations of the Phase II Boston desegregation program. As a member of the Citywide Coordinating Council, I am particularly aware of the complexity and the difficulty of our undertaking. We are grateful to the Institute and its director, James Case, for the professionalism and effectiveness with which they have carried out this additional assignment.

The Kennedy Library

Last February, the John F. Kennedy Library Corporation, thwarted in its efforts to place President Kennedy's memorial library in Cambridge, asked if we could identify possible sites for the library at the University. We responded to that invitation, and over the ensuing months, members of the Corporation looked at both the Boston and Amherst campuses. In November, faced with a final choice between the University's Harbor campus and a split location -- with archives at Harvard and the Museum in Charlestown -- the Corporation elected to build the John F. Kennedy Library at the University of Massachusetts at Boston. This decision enormously encourages the development of programs related to public policy at the Harbor Campus, as well as offering the prospect of new development to the entire peninsula. My special thanks go to Trustee Clark, to Vice President Robinson, and to Chancellor Golino for their special, inspired efforts in this program.

Amherst

For the first and the largest of the University's campuses, 1975 was marked by gains on a number of fronts, but clearly the most direct and dramatic event at Amherst was the opening of the Fine Arts Center in October. The opening season included an inaugural concert by the Boston Symphony Orchestra and the award of an honorary degree to its music director, Seiji Ozawa, as well as a number of other special musical and theatrical events. With a concert hall of 2,200 seats, two theaters, studios and music practice rooms, the Center represents one of the finest facilities for the fine and performing arts in the nation. Its architectural distinction was recognized by "Architectural Forum" in its May, 1975, issue, which featured the building on the cover and a four-page story. The Fine Arts Center, together with the University Library, opened in 1974, substantially complete the building program of the University at Amherst.

The DuBois Papers

Three years ago, Chancellor Bromery arranged for the University at Amherst to become the depository for the papers of W.E.B. DuBois. In several subsequent trips to Egypt, he secured additional access to the invaluable collection of this major black leader in the life of Massachusetts and America. This year, his widow, Shirley Graham DuBois, agreed to become a visiting lecturer at Amherst, and offered a seminar in creative writing in the Department of Afro-American Studies which bears her late husband's name. The University Library at Amherst is well on its way to becoming a national center for the collection of works by black authors and artists, aided in 1975 by a grant of $69,942 from the National Endowment for the Humanities for organizing, cataloging, and describing the DuBois papers.

Conclusion

Given an environment at best skeptical, and given difficult internal adjustments to meet a future of diminishing resources, the University has more than persevered in 1975. It has brought close to fruition the plans for the Medical Center in Worcester; it has achieved parity with other great Land Grant universities in academic field after academic field; it has undertaken special missions consistent with its academic nature at Boston; it has become the site of one of the six Presidential libraries in the nation. These are tangible achievements.

The intangible achievements may be more important. The University has withstood intrusions into its fiscal and program independence. It has undertaken to lift constraints that are both punitive and unwarranted. The University of Massachusetts has become a way in which thousands of residents of the Commonwealth have found access to higher education, useful careers, constructive lives. It is an investment which has repaid itself over and over again in the economic well being and civic progress of this state. Indeed, it is difficult to conceive now the time when the University was not a prime force in private development and public policy, when it was restricted essentially to one sector of the economy -- agriculture -- and to a limited curriculum for a limited number of its citizens. Massachusetts and its University are, in my view, now inseparably intertwined, and the strength and health and well-being of each depends on the other. To reduce the University's effectiveness is to weaken the state.

REPORT OF THE TREASURER

Summary of Operating Funds
Fiscal Year Ending June 30, 1975

Where the Operating Dollar Comes From...Amherst, Boston, Worcester

	Total Amount	Percent of Total
Funds from University Receipts:		
Tuition	$ 9,020,000.00	4.86
Residence Halls	376,000.00	.20
Sales and Services	523,000.00	.28
Total University Receipts to State Treasurer	$ 9,919,000.00	5.34
Net Funds from Taxpayers of the Commonwealth	89,841,000.00	48.45
Sub-Total	$ 99,760,000.00	53.79
Federal Government	18,469,000.00	9.96
Student Activities	5,104,000.00	2.75
Student Aid Funds	286,000.00	.15
Student Loan Funds Notes Receivable	5,627,000.00	3.03
Gifts and Grants	13,830,000.00	7.46
Auxiliary Enterprises	34,653,000.00	18.68
Endowment Income	220,000.00	.12
Agency Funds	7,539,000.00	4.06
Total Funds Available	$185,488,000.00	100.00

How It Is Spent...Amherst, Boston, Worcester

	Total Amount	Percent of Total
Instruction		
State Funds	$ 56,491,000.00	31.92
Federal Funds	4,422,000.00	2.50
Gifts and Grants	1,370,000.00	.77
Total Instruction	$ 62,283,000.00	35.19
Library	4,140,000.00	2.34
Research	12,152,000.00	6.87
Public Service		
Agricultural Extension	4,296,000.00	2.43
State Agricultural Control Services	886,000.00	.50
Operation of Plant and Space Rentals	19,750,000.00	11.15
Administration	11,823,000.00	6.68
Student Service	5,994,000.00	3.39
Scholarships	4,128,000.00	2.33
Student Loan Funds Notes Receivable	5,627,000.00	3.18
Student Activities	4,827,000.00	2.73
Auxiliary Enterprises	32,566,000.00	18.39
Agency and Miscellaneous	8,530,000.00	4.82
Total Funds Used	$177,002,000.00	100.00
Balance Carried Forward (Restricted Funds)	8,486,000.00	
Total Funds Used and Balances	$185,488,000.00	

HEADCOUNT ENROLLMENT FALL 1975

	Amherst	Boston	Worcester	Total
Undergraduate	20,166	6,808		26,974
Part-time	223	622		845
Total	20,389	7,430		27,819
Graduate	2,558		232	2,790
Part-time	2,937	43		2,980
Total	5,495	43	232	5,770
Total Enrollment	25,884	7,473	232	33,589
Total Enrollment, FTE	22,285	6,903	232	29,420

DEGREES GRANTED - 1974-75

Level	Amherst	Boston	Worcester	Total
Associate	236			236
Bachelor's	4,041	781		4,822
Master's	931	9		940
Doctor's	342			342
M.D.			22	22
Total	5,550	790	22	6,362

UNIVERSITY OF MASSACHUSETTS

AMHERST • BOSTON • WORCESTER

FINANCIAL REPORT 1975

UNIVERSITY OF MASSACHUSETTS

Amherst Boston Worcester

FINANCIAL REPORT

FOR THE YEAR ENDED JUNE 30, 1975

Kenneth W. Johnson
Treasurer

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JUNE 30, 1975

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Catherine Forbes Clark	Dorchester
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Robert D. Gordon	Boston
John William Haigis, Jr.	Greenfield
Joseph P. Healey	Arlington
Mrs. Eliot S. Knowles	South Dartmouth
Gavin D. Robertson	Worcester
Mrs. George R. Rowland	Osterville
John O'Keefe, Student Member, Amherst Campus	Amherst
Alan Shaler	Easthampton
Mrs. Erline Shearer	Boston
Ms. Muriel S. Snowden	Roxbury
Robert Spiller	Winchester
Cary Rothenburger, Student Member, Boston Campus	Concord
Frederick S. Troy	Boston
Most Reverend Christopher Joseph Weldon	Springfield

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Robert Wood, President of the University	Lincoln
William J. Bicknell, Commissioner of Public Health	Marshfield
Frederick Winthrop, Jr., Commissioner of Agriculture	Ipswich
Gregory R. Anrig, Commissioner of Education	Needham
William Goldman, M.D., Commissioner of Mental Health	Boston
Nancy B. Eddy, Chairman, Board of Selectmen	Amherst

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Dorothy Eichel, Assistant Secretary	Boston
Kenneth W. Johnson, Treasurer	Amherst

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AUDIT

IN ACCORDANCE WITH STATE LAW, ALL ACCOUNTS OF THE UNIVERSITY ARE EXAMINED EACH YEAR BY THE STATE AUDITORS. THE LAST AUDIT COVERED THE PERIOD OF THIS REPORT FROM JULY 1, 1974 TO JUNE 30, 1975

UNIVERSITY OF MASSACHUSETTS

BALANCE SHEET AS OF JUNE 30, 1975

ASSETS

CURRENT FUNDS

UNRESTRICTED

CASH AND TEMPORARY INVESTMENTS	$ 10,275,976.40
CASH WITH TREASURER OF MASSACHUSETTS	4,059,201.20
INVESTMENTS	6,155.00
ACCOUNTS RECEIVABLE	225,521.33
INVENTORIES	12,409.13
TOTAL UNRESTRICTED	$ 14,579,063.06

RESTRICTED

CASH AND TEMPORARY INVESTMENTS	$ 25,442.26
ACCOUNTS RECEIVABLE	9,628,059.90
DUE FROM OTHER FUNDS	50,000.00
TOTAL RESTRICTED	$ 9,703,502.16
TOTAL CURRENT FUNDS	$ 24,282,565.22

LOAN FUNDS

CASH AND TEMPORARY INVESTMENTS	$ 286,372.01
NOTES RECEIVABLE	5,626,830.89
TOTAL LOAN FUNDS	$ 5,913,202.90

LIABILITIES AND FUND BALANCES

CURRENT FUNDS

UNRESTRICTED

ACCOUNTS PAYABLE	$ 4,388,837.85
ADVANCE FROM TREASURER OF MASSACHUSETTS	-0-
DEFERRED REVENUES	48,388.92
DEPOSITS	737,709.58
RESERVES	299,363.98
DUE TO OTHER FUNDS	50,000.00
FUND BALANCES	9,054,762.73
TOTAL UNRESTRICTED	$ 14,579,063.06

RESTRICTED

ADVANCE FROM TREASURER OF MASSACHUSETTS	$ 8,364,236.11
FUND BALANCES	1,339,266.05
TOTAL RESTRICTED	$ 9,703,502.16
TOTAL CURRENT FUNDS	$ 24,282,565.22

LOAN FUNDS

FUND BALANCES	$ 5,913,202.90
TOTAL LOAN FUNDS	$ 5,913,202.90

ENDOWMENT FUNDS	
CASH	$ 8,569.95
INVESTMENTS-POOLED	1,723,212.19
INVESTMENTS-NONPOOLED	155,836.73
NOTES RECEIVABLE	44,000.00
TOTAL ENDOWMENT FUNDS	$ 1,931,618.87

ENDOWMENT FUNDS	
DEFERRED FUNDS	$ 21,200.00
FUND BALANCES	1,910,418.87
TOTAL ENDOWMENT FUNDS	$ 1,931,618.87

PLANT FUNDS	
UNEXPENDED	
CASH	$ 77,292.40
TOTAL UNEXPENDED	$ 77,292.40
RENEWALS AND REPLACEMENTS	
CASH	$ 862,861.94
TOTAL RENEWALS AND REPLACEMENTS	$ 862,861.94
INVESTMENT IN PLANT	
LAND	$ 13,935,396.00
BUILDINGS	194,072,520.00
IMPROVEMENTS	21,387,537.16
EQUIPMENT	45,677,271.00
TOTAL INVESTMENT IN PLANT	$275,072,724.16
TOTAL PLANT FUNDS	$276,012,878.50

PLANT FUNDS	
UNEXPENDED	
FUND BALANCES	$ 77,292.40
TOTAL UNEXPENDED	$ 77,292.40
RENEWALS AND REPLACEMENTS	
FUND BALANCES	$ 862,861.94
TOTAL RENEWALS AND REPLACEMENTS	$ 862,861.94
INVESTMENT IN PLANT	
FUND BALANCES	$275,072,724.16
TOTAL INVESTMENT IN PLANT	$275,072,724.16
TOTAL PLANT FUNDS	$276,012,878.50

AGENCY FUNDS	
CASH	$ (380,028.71)
ACCOUNTS RECEIVABLE - FEDERAL	806,717.96
TOTAL AGENCY FUNDS	$ 426,689.25

AGENCY FUNDS	
DEPOSITS HELD IN CUSTODY FOR OTHERS	$ 426,689.25
TOTAL AGENCY FUNDS	$ 426,689.25

UNIVERSITY OF MASSACHUSETTS

STATEMENT OF CURRENT FUNDS REVENUES, EXPENDITURES, AND OTHER CHANGES

YEAR ENDED JUNE 30, 1975

	UNRESTRICTED	RESTRICTED	TOTAL
REVENUES:			
TUITION AND FEES	$ 5,103,966.25	$ -0-	$ 5,103,966.25
FEDERAL APPROPRIATIONS	-0-	5,633,664.38	5,633,664.38
STATE APPROPRIATIONS	96,905,420.34	2,555,136.77	99,460,557.11
LOCAL APPROPRIATIONS	-0-	-0-	-0-
FEDERAL GRANTS AND CONTRACTS	-0-	9,613,539.24	9,613,539.24
STATE GRANTS AND CONTRACTS	-0-	1,806,492.18	1,806,492.18
LOCAL GRANTS AND CONTRACTS	-0-	153,765.33	153,765.33
PRIVATE GIFTS, GRANTS, AND CONTRACTS	350,280.97	3,587,249.84	3,937,530.81
ENDOWMENT INCOME	-0-	38,270.49	38,270.49
SALES AND SERVICES OF EDUCATIONAL ACTIVITIES	-0-	-0-	-0-
SALES AND SERVICES OF AUXILIARY ENTERPRISES	35,710,130.11	-0-	35,710,130.11
SALES AND SERVICES OF HOSPITAL	-0-	-0-	-0-
RECOVERY OF INDIRECT COSTS	2,459,675.57	-0-	2,459,675.57
INCOME FROM SHORT-TERM INVESTMENTS	857,409.76	-0-	857,409.76
OTHER SOURCES	99,487.57	52,890.81	152,378.38
TOTAL CURRENT REVENUES	$139,486,370.37	$23,441,009.04	$162,927,379.41
EXPENDITURES AND MANDATORY TRANSFERS:			
EDUCATIONAL AND GENERAL:			
INSTRUCTION	$ 50,633,003.59	$ 4,709,258.15	$ 55,342,261.74
RESEARCH	2,020,131.26	10,131,882.87	12,152,014.13
PUBLIC SERVICE	2,723,188.20	2,458,370.16	5,181,558.36
ACADEMIC SUPPORT	10,052,730.03	697,421.18	10,750,151.21
STUDENT SERVICES	5,286,392.13	640,580.51	5,926,972.64
INSTITUTIONAL SUPPORT	14,669,265.37	21,404.77	14,690,670.14
OPERATION AND MAINTENANCE OF PLANT	19,793,945.54	0-	19,793,945.54
SCHOLARSHIPS AND FELLOWSHIPS	1,012,759.32	4,591,634.43	5,604,393.75
EDUCATIONAL AND GENERAL EXPENDITURES	$106,191,415.44	$23,250,552.07	$129,441,967.51
MANDATORY TRANSFERS FOR:			
PRINCIPAL AND INTEREST	-0-	-0-	-0-
RENEWALS AND REPLACEMENTS	-0	-0-	-0-
LOAN FUNDS MATCHING GRANT	-0	190,456.97	190,456.97
TOTAL EDUCATIONAL AND GENERAL	$106,191,415.44	$23,141,009.04	$129,632,424.48

AUXILIARY ENTERPRISES:			
EXPENDITURES	$ 27,042,852.52	$ -0-	$ 27,042,852.52
MANDATORY TRANSFERS FOR:			
PRINCIPAL AND INTEREST	5,531,286.07	-0-	5,531,286.07
RENEWALS AND REPLACEMENTS	-0-	-0-	-0-
TOTAL AUXILIARY ENTERPRISES	$ 32,574,138.59	$ -0-	$ 32,574,138.59
HOSPITAL:			
EXPENDITURES	$ 46,577.56	$ -0-	$ 46,577.56
MANDATORY TRANSFERS FOR:			
PRINCIPAL AND INTEREST	-0-	-0-	-0-
RENEWALS AND REPLACEMENTS	-0-	-0-	-0-
TOTAL HOSPITAL	$ 46,577.56	$ -0-	$ 46,577.56
TOTAL EXPENDITURES AND MANDATORY TRANSFERS	$138,812,131.59	$23,441,009.04	$162,253,140.63
OTHER TRANSFERS AND ADDITIONS/(DEDUCTIONS):			
EXCESS OF RESTRICTED RECEIPTS OVER TRANSFERS TO REVENUES	$ -0-	$ 3,993,335.74	$ 3,993,335.74
REFUNDED TO GRANTORS	-0-	(197,787.84)	(197,787.84)
UNRESTRICTED GIFTS ALLOCATED TO OTHER FUNDS	-0-	-0-	-0-
RENEWALS AND REPLACEMENTS	(193,319.04)	-0-	(193,319.04)
OTHER	1,358,272.18	(2,094,375.33)	(736,103.15)
TOTAL OTHER TRANSFERS AND ADDITIONS/(DEDUCTIONS)	$ 1,164,953.14	$ 1,701,172.57	$ 2,866,125.71
NET INCREASE IN FUND BALANCES	$ 1,839,191.92	$ 1,701,172.57	$ 3,540,364.49

STATE GENERAL MAINTENANCE APPROPRIATION

COMPARATIVE STATEMENT OF EXPENDITURES BY YEAR

OFFICE OF THE PRESIDENT - AMHERST - BOSTON - WORCESTER

BY SUBSIDIARY ACCOUNT FOR ALL CAMPUSES

CODE NO.		1971	1972	1973	1974	1975
01	SALARIES, PERMANENT	$41,290,517.20	$47,128,785.21	$54,675,645.08	$61,415,448.94	$69,507,715.12
02	SALARIES, OTHER	660,203.57	685,983.12	964,205.24	1,301,195.76	1,194,027.00
03	SERVICES, NON-EMPLOYEES	6,757,404.42	7,279,924.07	6,099,050.16	6,991,725.81	7,603,719.00
04	FOOD FOR PERSONS	860.00	2,500.00	1,500.00	1,350.00	25,154.00
05	CLOTHING	5,999.58	14,220.92	15,956.11	21,418.28	20,387.00
06	HOUSEKEEPING, SUPPLIES & EXPENSE	110,549.36	127,575.29	113,640.05	186,852.17	199,479.00
07	LABORATORY, MEDICAL & GENERAL CARE	15,173.97	15,465.22	14,266.83	15,958.52	261,797.00
08	HEAT, OTHER PLANT OPERATIONS	1,779,847.25	2,568,263.92	2,822,830.47	5,440,845.19	9,164,800.00
09	FARM & GROUNDS	116,834.77	125,741.89	99,027.45	150,235.51	108,215.00
20	TRAVEL & AUTOMOTIVE EXPENSES	242,753.32	267,577.03	244,768.05	396,178.82	414,144.00
11	ADVERTISING & PRINTING	207,810.64	240,113.53	228,283.02	254,671.07	368,940.00
12	REPAIRS, ALTERATIONS & ADDITIONS	856,294.66	1,053,920.30	922,690.75	1,104,058.43	1,792,286.00
13	SPECIAL SUPPLIES & EXPENSES	1,233,774.91	1,496,045.24	1,661,962.42	1,955,275.56	2,071,049.00
14	OFFICE & ADMINISTRATIVE EXPENSES	736,976.68	862,986.26	1,056,495.41	1,273,449.45	1,595,055.00
15	EQUIPMENT	926,757.67	994,968.02	116,732.95	1,023,154.89	671,970.00
16	RENTALS	2,242,069.01	2,542,163.58	2,628,759.88	2,610,844.94	1,741,241.88
	TOTAL	$57,166,826.24	$65,409,031.66	$71,965,817.85	$84,418,619.14	$97,038,280.00

UNIVERSITY OF MASSACHUSETTS

Office of the President

SCHEDULE A-1

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - OFFICE OF THE PRESIDENT

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
CURRENT FUNDS UNRESTRICTED					
010100	PETTY CASH/PRESIDENT	464.77-	1,464.77	.00	1,000.00-
010701	OCEAN SPRAY CRAN/STOCK	.00	6,155.00	.00	6,155.00-
015010	PAYROLL W/H-ANNUITIES	89,934.01	.00	89,934.01-	.00
015050	TRUST FUND/UNPAID CHECKS	7,385.59	.00	7,385.59-	.00
016715	SMITH FUND	3,202.50	.00	3,002.50-	200.00-
016720	WILLIAM ROSS FUND	4,850.00	.00	.00	4,850.00-
016721	ROBERT J MCCARTNEY FUND	499.00	.00	.00	499.00-
016722	BARETTE SCHILLER FUND	8,276.00	.00	.00	8,276.00-
019101	UNIVERSITY SYSTEM INCOME	628,645.70	.00	.00	628,645.70-
	* FUND GROUP TOTAL *	742,328.03	7,619.77	100,322.10-	649,625.70-
CURRENT FUNDS RESTRICTED					
020144	LILLY MULTT-CUL LEADER	1,499.95	.00	.00	1,499.95-
020148	ED COLLABORATIVE BOSTON	1,112.42	.00	.00	1,112.42-
020168	TRI-ST REG MED/DONAHUE	69,125.08-	.00	.00	69,125.08
020188	LILLY/U M FOUND/LEADER	10,912.15-	.00	.00	10,912.15
022500	NSF L/CR	376,269.43-	376,269.43	.00	.00
025000	PHS L/CR	212,938.59-	212,938.59	.00	.00
029251	MA DEPT ED/VIDEO TAPE	16.54	.00	.00	16.54-
029272	INTERGOVMNTAL PERS ACT P	16,017.93-	.00	.00	16,017.93
029294	MA ED/TRNG SCH ADM SP ED	61.41	.00	.00	61.41-
029312	MA DPW/ENVIRONMENT STUDY	102,695.53-	.00	.00	102,695.53
029313	MA DPW/TRANSPORT PLAN	92,835.53-	.00	.00	92,835.53
029338	MA ED/TRAIN PARENTS	20.90-	.00	.00	20.90
029352	MA MANPOWER/WOMANPOWER	5,043.61-	.00	.00	5,043.61
029353	MA MANPOWER/SPANISH PROG	18,146.47-	.00	.00	18,146.47
029354	MA ED/SEMINARS FOR LEAD	3,922.83	.00	.00	3,922.83-
029356	IPA #4/FY75	26,571.47-	.00	.00	26,571.47
029362	MA ED FIRE CHIEFS EDUCAT	3,104.51-	.00	.00	3,104.51
030000	GENERAL FEDERAL GRANTS	21,275.21-	.00	8,364,234.25-	8,385,509.46
030003	USDA L/CR (EXTENSION)	1,468,991.00	5,280.00-	.00	1,463,711.00-
030004	USDA L/CR (EXPERIMENT)	811,160.00	.00	.00	811,160.00-
032600	NSF GU-4210	.00	1,839.65	.00	1,839.65-
034000	BANKHEAD-JONES CONTROL73	118.51	.00	.00	118.51-
034218	MORRILL-NELSON CONTROL73	3.03	.00	.00	3.03-
034327	SMITH-HUGHES CONTROLFY7	7,827.14-	.00	.00	7,827.14
037110	BURNHAM EMERGENCY Y	525.56	.00	.00	525.56-
037160	LUCIUS CLAPP	2,245.64	.00	.00	2,245.64-
037260	ENDOWMENT FROM STATE	4,060.57	.00	.00	4,060.57-
037360	C C HARDY	99.05	.00	.00	99.05-

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - OFFICE OF THE PRESIDENT

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
037450	M D & A H LINCOLN	35,419.01	50,000.00	.00	85,419.01-
037470	MURRAY D LINCOLN LAND	296.69	.00	.00	296.69-
037640	FREDRICK H READ	181.57	.00	.00	181.57-
037690	WILLIAM P SESSIONS	648.88	.00	.00	648.88-
037780	WILLIAM WHEELER	929.49	.00	.00	929.49-
037990	ADMIN OF ENDOWMENTS	1,714.81	.00	1.86-	1,712.95-
	* FUND GROUP TOTAL *	1,370,223.41	635,767.67	8,364,236.11-	6,358,245.03

ENDOWMENTS & SIMILAR FUNDS

050000	DONALD P ALLAN SCHOL	.00	6,970.00	.00	6,970.00-
050100	ALPHA SIGMA PHI SCHOL	.00	7,100.00	.00	7,100.00-
050200	ALVORD DAIRY SCHOLARSHIP	.00	4,197.15	.00	4,197.15-
050300	OSCAR G ANDERSON SCHOL	.00	1,015.00	.00	1,015.00-
050400	ANONYMOUS MEDICAL SCHOL	.00	41,390.05	.00	41,390.05-
050500	ASCENSION FARM SCHOL	.00	119,975.79	.00	119,975.79-
050600	D K BANGS SCHOLARSHIP	.00	5,861.58	.00	5,861.58-
050700	GEORGE H BARBER	.00	5,073.86	.00	5,073.86-
050701	GEORGE H BARBER/MHR WRES	.00	691.57	.00	691.57-
050900	OSWALD BEHREND AWARD	.00	1,198.33	.00	1,198.33-
051000	SEYMOUR BAROWSKY	.00	5,000.00	.00	5,000.00-
051100	BURNHAM EMERGENCY	.00	7,742.23	.00	7,742.23-
051200	JOHN & NANCY BUTTERWORTH	.00	10,000.00	.00	10,000.00-
051300	BUTTRICK SCHOLARSHIP	.00	10,000.00	.00	10,000.00-
051400	THEODORE C CALDWELL	.00	1,213.53	.00	1,213.53-
051450	RAYMOND CHAMBERLIN	.00	6,335.80	.00	6,335.80-
051500	HAROLD W CARY PRIZE FUND	.00	890.87	.00	890.87-
051600	LUCIUS CLAPP	.00	8,740.42	.00	8,740.42-
051800	CLASS OF 1882 MSC SCHOL	.00	2,042.13	.00	2,042.13-
051900	GEORGE & EDITH CODDING	.00	388,464.70	.00	388,464.70-
052000	GUY CHESTER CRAMPTON	.00	2,539.03	.00	2,539.03-
052100	F G CRANE	.00	25,518.08	.00	25,518.08-
052200	JOHN C CUTTER	.00	1,098.41	.00	1,098.41-
052300	STEPHEN DAVIS SCHOL	.00	19,175.00	.00	19,175.00-
052400	DISTINGUISHED VISITORS	.00	70,690.06	.00	70,690.06-
052500	F W ELDRIDGE JR MEMOR	.00	1,555.00	.00	1,555.00-
052700	GEORGE L FARLEY FUND	.00	5,000.00	.00	5,000.00-
052800	F C FOLEY SCHOL	.00	5,145.00	.00	5,145.00-
052900	HARRY L FOLSOM MED MEM	.00	11,068.76	.00	11,068.76-
053000	J D W FRENCH FUND	.00	10,743.41	.00	10,743.41-
053100	KATHRYN F FURCOLO	.00	10,976.43	.00	10,976.43-
053200	GASSETT SCHOLARSHIP	.00	1,462.20	.00	1,462.20-
053250	GENERAL ENDOW-AMHERST	.00	265.50	.00	265.50-

SCHEDULE A-1

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - OFFICE OF THE PRESIDENT

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
053300	CHARLES A GLEASON	.00	3,731.73	.00	3,731.73-
053400	GRINNEL PRIZE FUND	.00	125.94	.00	125.94-
053500	M R POMERY HAMLIN	.00	33,537.36	.00	33,537.36-
053600	C C HARDY	.00	119.65	.00	119.65-
053700	WALTER H HARRISON	.00	11,836.14	.00	11,836.14-
053800	PHILIP HASBROUCK	.00	9,775.66	.00	9,775.66-
054000	HILLS FUND	.00	15,523.89	.00	15,523.89-
054100	RICHARD T HOGAN	.00	7,041.70	.00	7,041.70-
054200	CLIFTON JOHNSON	.00	3,411.47	.00	3,411.47-
054300	HELEN KNOWLTON	.00	15,000.00	.00	15,000.00-
054400	HOWARD M LEROW MEMORIAL	.00	10,199.13	.00	10,199.13-
054500	LIBRARY	.00	11,027.85	.00	11,027.85-
054600	M D & A H LINCOLN FUND	.00	478,638.21	.00	478,638.21-
054700	MURRAY D LINCOLN LAND	.00	151,299.23	.00	151,299.23-
054800	ALBERT P MADEIRA SCHOL	.00	14,496.62	.00	14,496.62-
054900	MARY A MAHER SCHOL	.00	7,043.85	.00	7,043.85-
055000	ELIZABETH L MCNAMARA	.00	1,000.00	.00	1,000.00-
055100	DREANA MERRIAM ENDOW	.00	1,623.02	.00	1,623.02-
055200	U OF M METAWAMPE FUND	.00	1,050.00	.00	1,050.00-
055300	HELEN MITCHELL	.00	6,850.00	.00	6,850.00-
055350	JEFFERY MORGAN	250.00	3,520.00	.00	3,770.00-
055400	PORTER L NEWTON	.00	24,204.46	.00	24,204.46-
055500	J CLARK OSTERHOUT	.00	396.95	.00	396.95-
055600	BETSY PINKERTON	.00	4,500.00	.00	4,500.00-
055700	CHARLES A PETERS	.00	1,162.77	.00	1,162.77-
055800	CHARLES S PLUMB FUND	.00	4,992.90	.00	4,992.90-
055900	FRANK H PLUMB	.00	13,427.17	.00	13,427.17-
056000	ROBERT POMEROY	.00	1,535.95	.00	1,535.95-
056100	A L POND	.00	1,054.78	.00	1,054.78-
056200	WILLIAM PROCTOR FELLOW	.00	2,000.00	.00	2,000.00-
056280	FRANK PRENTICE RAND	.00	5,000.00	.00	5,000.00-
056300	BRIAN RATTIGAN	.00	923.11	.00	923.11-
056400	FREDRICK H READ	.00	1,699.55	.00	1,699.55-
056500	V A RICE SCHOLARSHIP	.00	2,784.11	.00	2,784.11-
056600	MARY ROBINSON	.00	3,000.00	.00	3,000.00-
056700	JOHN RYAN FACULTY CONV	.00	872.91	.00	872.91-
056750	V C SAVIO SCHOL	.00	4,537.50	.00	4,537.50-
056800	ILENE SHARON SAVOL	.00	3,013.19	.00	3,013.19-
056900	WILLIAM P SESSIONS	.00	4,780.97	.00	4,780.97-
057000	FRANK R SHAW	.00	1,320.29	.00	1,320.29-
057100	PHILIP SHEINFIELD	.00	5,984.00	.00	5,984.00-
057200	H E STAPLES MEMORIAL	.00	51,907.08	.00	51,907.08-
057300	BETTY STEINBUGLER	.00	200.00	.00	200.00-
057400	STOCKBRIDGE SCHOOL ALUMN	.00	2,028.38	.00	2,028.38-
057470	HARVEY SWADOS	.00	4,175.00	.00	4,175.00-

SCHEDULE A-1

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - OFFICE OF THE PRESIDENT

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
057500	ROY E TORREY MEMORIAL	.00	1,075.42	.00	1,075.42-
057600	RUTH J TOTMAN MEMORIAL	.00	949.17	.00	949.17-
057700	FRANK M WEST FORESTRY	.00	18,328.55	.00	18,328.55-
057800	WILLIAM WHEELER	.00	10,855.91	.00	10,855.91-
057900	WHITING STREET SCHOL	.00	2,021.70	.00	2,021.70-
058000	HELEN A WHITTIER	.00	3,338.22	.00	3,338.22-
058900	RESERVE FOR INVESTMENT	.00	142,107.49	.00	142,107.49-
059000	POOLED INVESTMENTS	.00	21,200.00	21,200.00-	.00
	* FUND GROUP TOTAL *	250.00	1,931,368.87	21,200.00-	1,910,418.87-
PLANT FUNDS					
078110	EQUIPMENT-PRESIDENTS	.00	115,357.00	.00	115,357.00-
	* FUND GROUP TOTAL *	.00	115,357.00	.00	115,357.00-
AGENCY FUNDS					
092500	MILDRED PIERPONT MEMORIA	185.00	.00	.00	185.00-
	* FUND GROUP TOTAL *	185.00	.00	.00	185.00-

SCHEDULE A-2

STATE APPROPRIATIONS

OFFICE OF THE PRESIDENT

COMPARATIVE STATEMENT BY SUBSIDIARY ACCOUNT

SUBSIDIARY ACCOUNT		1973	1974	1975
GENERAL MAINTENANCE				
7400-0010-01	SALARIES, PERMANENT	$ 290,755.00	$ 376,257.00 (1)	$ 408,780.00
7400-0010-02	SALARIES, OTHER	1,600.00	1,000.00	1,200.00
7400-0010-03	SERVICES, NON-EMPLOYEE	11,250.00	40,180.00	27,500.00
7400-0010-08	HEAT AND OTHER PLANT OPERATIONS	4,500.00	6,000.00	7,400.00
7400-0010-10	TRAVEL & AUTOMOTIVE EXPENSE	4,500.00	33,890.00	32,000.00
7400-0010-11	ADVERTISING & PRINTING	4,230.00	12,700.00	11,000.00
7400-0010-12	REPAIR & ALTERATIONS	500.00	12,134.00	8,000.00
7400-0010-13	SPECIAL SUPPLIES & EXPENSES	3,690.00	11,500.00	13,000.00
7400-0010-14	OFFICE & ADMINISTRATIVE EXPENSES	37,963.00	89,620.00	97,840.00
7400-0010-15	EQUIPMENT PURCHASES	2,500.00	18,750.00	7,160.00
7400-0010-16	RENTALS	81,165.00	173,100.00	169,500.00
	TOTAL	$ 442,653.00	$ 775,131.00	$ 783,380.00
GOVERNMENT SERVICES				
7400-0100-01	SALARIES, PERMANENT	$ 41,540.00	$ 56,401.00 (1)	$ 59,172.00
7400-0100-02	SALARIES, OTHER	-0-	-0-	-0-
7400-0100-03	SERVICES, NON-EMPLOYEE	16,049.00	16,185.00	14,944.00
7400-0100-10	TRAVEL & AUTOMOTIVE EXPENSE	3,556.00	4,465.00	5,207.00
7400-0100-11	ADVERTISING & PRINTING	-0-	1,273.00	2,985.00
7400-0100-12	REPAIRS & ALTERATIONS	3,510.00	3,725.00	348.00
7400-0100-13	SPECIAL SUPPLIES & EXPENSES	99.00	1,000.00	1,836.00
7400-0100-14	OFFICE & ADMINISTRATIVE EXPENSES	700.00	3,675.00	2,392.00
7400-0100-15	EQUIPMENT PURCHASES	3,980.00	1,735.00	1,775.00
	TOTAL	$ 69,434.00	$ 88,459.00	$ 88,659.00
GENERAL COURT STAFF FELLOWSHIP				
7400-0014-02	SALARIES, OTHER	$ -0-	$ -0-	$ 5,500.00
7400-0014-03	SERVICES, NON-EMPLOYEE	-0-	-0-	9,000.00
7400-0014-10	TRAVEL & AUTOMOTIVE EXPENSE	-0-	-0-	308.65
7400-0014-11	ADVERTISING & PRINTING	-0-	-0-	380.00
7400-0014-13	SPECIAL SUPPLIES & EXPENSES	-0-	-0-	4,240.00
7400-0014-14	OFFICE & ADMINISTRATIVE EXPENSES	-0-	-0-	1,000.00
7400-0014-15	EQUIPMENT PURCHASES	-0-	-0-	1,000.00
	TOTAL	$ -0-	$ -0-	$ 21,428.65
OTHER MAINTENANCE				
7400-0110-15	MATCHING EQUIPMENT	$ 62,500.00	$ 200,000.00	$ 200,000.00
7400-0111-13	LIBRARY BOOKS	456,000.00	480,000.00	480,000.00
7400-0112-03	SENIOR INTERNSHIP	26,250.00	35,000.00	35,000.00
7400-0113-03	LEGISLATIVE INTERNSHIP	26,250.00	35,000.00	35,000.00
7400-8751-00	LIBRARY BOOKS	-0-	-0-	740,000.00
7400-9604-03	DISADVANTAGED STUDENTS	50,830.80	55,000.00	55,000.00
7400-9604-13	DISADVANTAGED STUDENTS	616,706.20	645,000.00	645,000.00
7400-9704-13	SCHOLARSHIPS	850,000.00	1,050,000.00	1,050,000.00
7411-1012-14	ENTERTAINMENT OF DISTINGUISHED VISITORS	1,000.00	1,000.00	1,000.00
7400-0014	GENERAL COURT FELLOWSHIPS	-0-	11,000.00	-0-
	TOTAL	$ 2,089,537.00	$ 2,512,000.00	$ 3,241,000.00
	GRAND TOTAL	$ 2,601,624.00	$ 3,375,590.00	$ 4,134,467.65

(1) $13,148.45 for Retroactive Payroll (12/29/73 to 6/29/74) paid from State Reserve, not recorded as expense of University.

SCHEDULE A-3

STATE GENERAL MAINTENANCE APPROPRIATIONS

SUMMARY OF EXPENDITURES BY FUNCTIONAL DIVISION & SUBSIDIARY ACCOUNTS

OFFICE OF THE PRESIDENT

ACCOUNT NAME & NUMBER		APPROPRIATION	EXPENDITURES	ENCUMBRANCES	REVERTED TO STATE TREASURER	BALANCE OF APPROPRIATIONS JUNE 30, 1975
GENERAL MAINTENANCE						
7400-0010-01	SALARIES, PERMANENT	$ 408,780.00	$ 408,569.87	$ -0-	$ 210.13	$ -0-
7400-0010-02	SALARIES, OTHER	1,200.00	40.25	-0-	1,159.75	-0-
7400-0010-03	SERVICES, NON-EMPLOYEES	27,500.00	27,454.46	-0-	45.54	-0-
7400-0010-08	HEAT & OTHER PLANT OPERATIONS	7,400.00	7,400.00	-0-	-0-	-0-
7400-0010-10	TRAVEL & AUTOMOTIVE EXPENSE	32,000.00	31,974.41	-0-	25.59	-0-
7400-0010-11	ADVERTISING & PRINTING	11,000.00	10,706.64	-0-	293.36	-0-
7400-0010-12	REPAIRS & ALTERATIONS	8,000.00	7,882.45	-0-	117.55	-0-
7400-0010-13	SPECIAL SUPPLIES & EXPENSE	13,000.00	12,847.66	-0-	152.34	-0-
7400-0010-14	OFFICE & ADMINISTRATIVE EXPENSES	97,840.00	97,271.30	-0-	568.70	-0-
7400-0010-15	EQUIPMENT PURCHASES	7,160.00	5,888.24	-0-	1,271.76	-0-
7400-0010-16	RENTALS	169,500.00	169,256.85	-0-	243.15	-0-
	TOTAL	$ 783,380.00	$ 779,292.13	$ -0-	$ 4,087.87	$ -0-
GOVERNMENT SERVICES						
7400-0100-01	SALARIES, PERMANENT	$ 59,172.00	$ 59,171.82	$ -0-	$ .18	$ -0-
7400-0100-02	SALARIES, OTHER	-0-	-0-	-0-	-0-	-0-
7400-0100-03	SERVICES, NON-EMPLOYEES	14,944.00	14,943.73	-0-	.27	-0-
7400-0100-10	TRAVEL & AUTOMOTIVE EXPENSE	5,207.00	5,206.52	-0-	.48	-0-
7400-0100-11	ADVERTISING & PRINTING	2,985.00	2,984.75	-0-	.25	-0-
7400-0100-12	REPAIRS & ALTERATIONS	348.00	347.03	-0-	.97	-0-
7400-0100-13	SPECIAL SUPPLIES & EXPENSE	1,836.00	1,807.37	-0-	28.63	-0-
7400-0100-14	OFFICE & ADMINISTRATIVE EXPENSES	2,392.00	2,366.08	-0-	25.92	-0-
7400-0100-15	EQUIPMENT PURCHASES	1,775.00	1,774.40	-0-	.60	-0-
	TOTAL	$ 88,659.00	$ 88,601.70	$ -0-	$ 57.30	$ -0-
GENERAL COURT STATE FELLOWSHIP						
7400-0014-02	SALARIES, OTHER	$ 5,500.00	$ 4,692.88	$ -0-	$ -0-	$ 807.12
7400-0014-03	SERVICES, NON-EMPLOYEES	9,000.00	3,605.25	-0-	-0-	5,396.75
7400-0014-10	TRAVEL & AUTOMOTIVE EXPENSE	308.65	138.85	99.80	0-	70.00
7400-0014-11	ADVERTISING & PRINTING	380.00	140.00	-0-	-0-	240.00
7400-0014-13	SPECIAL SUPPLIES & EXPENSE	1,240.00	1,031.20	866.10	-0-	2,342.70
7400-0014-14	OFFICE & ADMINISTRATIVE EXPENSES	1,000.00	0-	150.00	-0-	850.00
7400-0014-15	EQUIPMENT PURCHASES	1,000.00	959.50	-0-	-0-	40.50
	TOTAL	$ 21,428.65	$ 10,565.68	$ 1,115.90	$ 0-	$ 9,747.07

SCHEDULE A-3

STATE GENERAL MAINTENANCE APPROPRIATIONS

SUMMARY OF EXPENDITURES BY FUNCTIONAL DIVISION & SUBSIDIARY ACCOUNTS

OFFICE OF THE PRESIDENT

ACCOUNT NAME & NUMBER		APPROPRIATION	EXPENDITURES	ENCUMBRANCES	REVERTED TO STATE TREASURER	BALANCE OF APPROPRIATIONS JUNE 30, 1975
OTHER MAINTENANCE						
7400-0110-13	EQUIPMENT	$ 200,000.00	$ 196,298.72	$ -0-	$ 3,701.28	$ -0-
7400-0111-13	LIBRARY BOOKS	480,000.00	479,999.37	-0-	.63	-0-
7400-0112-03	INTERNSHIPS	35,000.00	34,985.92	-0-	14.08	-0-
7400-0113-03	INTERNSHIPS	35,000.00	26,733.28	-0-	8,266.72	-0-
7400-8751-00	LIBRARY BOOKS	740,000.00	740,000.00	-0-	-0-	-0-
7400-9604-03	SCHOLARSHIPS	55,000.00	54,856.59	-0-	143.41	-0-
7400-9604-13	SCHOLARSHIPS	645,000.00	639,894.56	-0-	5,105.44	-0-
7400-9704-13	SCHOLARSHIPS	1,050,000.00	1,043,244.02	-0-	6,755.98	-0-
7411-1012-14	DISTINGUISHED VISITORS	1,000.00	1,000.00	-0-	-0-	-0-
	TOTAL	$5,211,000.00	$5,216,992.46	$ -0-	$24,007.54	$ -0-
	GRAND TOTAL	$4,134,467.65	$4,095,451.97	$1,115.90	$28,152.71	$9,747.07

SCHEDULE B-1

ENDOWMENT FUNDS - SUMMARY OF INVESTMENTS

AS OF JUNE 30, 1975

	COST OR BOOK VALUE		% OF TOTAL	
POOLED INVESTMENTS:				
BONDS AND NOTES				
GOVERNMENT	$129,303.35		6.88	
PUBLIC UTILITIES	290,446.34		15.44	
INDUSTRIAL	121,322.54		6.46	
		$ 541,072.23		28.78
PREFERRED STOCK		78,151.37		4.16
COMMON STOCK				
FINANCIAL	115,060.90		6.12	
INDUSTRIAL	821,436.41		43.69	
UTILITIES	85,542.00		4.55	
		1,022,039.31		54.36
TOTAL POOLED SECURITIES		$1,641,262.91		87.30
CASH				
UNINVESTED CASH	36,468.44		1.94	
SAVINGS ACCOUNT	2,531.79		.13	
		39,000.23		2.07
TOTAL POOLED INVESTMENTS		$1,680,263.14		89.37
NON-POOLED INVESTMENTS				
COMMON STOCK		4,537.50		.24
LAND		151,299.23		8.04
NOTES RECEIVABLE		44,000.00		2.35
		$1,880,099.87		100.00

SCHEDULE B-2

ENDOWMENT FUNDS - PRINCIPAL

STATEMENT OF POOLED INVESTMENTS
AS OF JUNE 30, 1975

DESCRIPTION	DATE OF ACQUISITION OR NUMBER OF SHARES	COST OR BOOK VALUE	MARKET VALUE
GOVERNMENT BONDS AND NOTES			
25,000 FEDERAL NATIONAL MORTGAGE ASSOCIATION 5.20's DUE JANUARY 19, 1977	9/22/67	$ 24,125.00	$ 24,188.00
40,000 FEDERAL NATIONAL MORTGAGE ASSOCIATION 6.50's DUE JUNE 10, 1977	10/24/72	40,000.00	39,200.00
25,000 INTERNATIONAL BANK FOR RECONSTRUCTION & DEVELOPMENT 4 1/2's DUE FEBRUARY 1, 1990	7/15/65	25,018.75	16,625.00
40,000 U. S. TREASURY 7 1/2's DUE AUGUST 15, 1976	12/31/70	40,159.60	40,200.00
TOTAL GOVERNMENT BONDS AND NOTES		$ 129,303.35	$ 120,213.00
PUBLIC UTILITY BONDS			
25,000 AMERICAN TELEPHONE & TELEGRAPH CO. DEBENTURE 4 3/8's DUE MAY 1, 1999	7/10/63-5/03/72	$ 23,370.82	$ 14,500.00
25,000 BOSTON EDISON CO. FIRST MORTGAGE 6 1/8's DUE JUNE 1, 1997, SERIES J	9/22/68	25,458.36	14,375.00
25,000 CENTRAL HUDSON GAS & ELECTRIC CORP. 5 3/4's DUE FEBRUARY 1, 1978	3/03/71	25,000.00	22,500.00
30,000 COLUMBUS & SOUTHERN OHIO ELECTRIC 7% DUE JUNE 1, 1979	10/24/72	30,000.00	27,000.00
25,000 COMMONWEALTH EDISON CO. FIRST MORTGAGE 5 1/4's DUE APRIL 1, 1996	7/25/66-3/15/72	23,803.70	15,844.00
25,000 FLORIDA POWER & LIGHT CO. FIRST MORTGAGE 4 3/8's DUE DECEMBER 1, 1986	2/06/59-7/16/68	21,800.00	15,188.00
25,000 FLORIDA POWER & LIGHT CO. FIRST MORTGAGE 7's DUE JUNE 1, 1998	6/30/68	25,527.13	17,844.00
25,000 GULF STATES UTILITIES 4 3/4's DUE JANUARY 1, 1989	10/12/72	18,900.00	16,063.00
25,000 PHILADELPHIA ELECTRIC CO. FIRST & REFUNDING MORTGAGE 4 5/8's DUE SEPTEMBER 1, 1987	11/26/57-7/16/68	22,169.32	14,844.00
25,000 SOUTHERN BELL TELEPHONE CO. DEBENTURE 4 3/8's DUE APRIL 1, 2001	7/15/65	24,437.50	13,563.00
4,000 SOUTHERN NATURAL GAS CO. FIRST MORTGAGE PIPE LINE SINKING FUND 4 3/4's DUE JANUARY 1, 1979	4/24/59	4,076.23	3,420.00
25,000 SOUTHERN CALIFORNIA EDISON CO. FIRST REFUNDING 4 1/2's DUE FEBRUARY 15, 1990	7/15/65-4/11/72	23,697.00	15,656.00
25,000 SOUTHWESTERN BELL TELEPHONE CO. DEBENTURE 4 3/4's DUE OCTOBER 1, 1992	10/17/58-12/18/58-6/30/68-3/15/72	22,206.28	15,844.00
TOTAL PUBLIC UTILITY BONDS		$ 290,446.34	$ 206,641.00

SCHEDULE B-2

ENDOWMENT FUNDS - PRINCIPAL

STATEMENT OF POOLED INVESTMENTS
AS OF JUNE 30, 1975

DESCRIPTION	DATE OF ACQUISITION OR NUMBER OF SHARES	COST OR BOOK VALUE	MARKET VALUE
INDUSTRIAL BONDS			
25,000 GENERAL MOTORS ACCEPTANCE CORP. DEBENTURE 4 5/8's DUE JUNE 15, 1986	7/06/64-12/31/70	$ 23,819.29	$ 18,344.00
25,000 GULF OIL CORP. DEBENTURE 5.35's DUE JUNE 15, 1991	7/25/66-12/31/71	23,857.00	18,000.00
25,000 N L INDUSTRIES 7 1/2's DUE DECEMBER 15, 1995	5/07/71	24,812.50	20,625.00
25,000 SHELL OIL CORP. SINKING FUND DEBENTURE 4 5/8's DUE AUGUST 1, 1986	8/03/71-12/31/70	23,968.75	19,375.00
25,000 SUN OIL CO. 8 1/2's DUE NOVEMBER 15, 2000	12/31/70	24,865.00	23,156.00
TOTAL INDUSTRIAL BONDS		$ 121,322.54	$ 99,500.00
PREFERRED STOCK			
CHAMPION INTERNATIONAL CORP. $1.20 CONV. PFD.	1,600	$ 44,442.92	$ 29,200.00
WACHOVIA CORP. $2.20 CUMM. CONV. PFD. SER. A.	500	33,708.45	21,125.00
TOTAL PREFERRED STOCK		$ 78,151.37	$ 50,325.00
COMMON STOCK - FINANCIAL			
BANKERS TRUST NEW YORK CORP.	700	$ 41,312.06	$ 26,862.50
NATIONWIDE CORP. CLASS A COMMON	767	8,341.13	5,657.00
NATIONWIDE LIFE INSURANCE CO.	32	816.00	824.00
TRAVELERS CORP.	1,000	33,678.12	27,375.00
WELLS FARGO AND CO.	1,400	30,913.59	26,600.00
TOTAL COMMON STOCK - FINANCIAL		$ 115,060.90	$ 87,318.50
COMMON STOCK - INDUSTRIAL			
AMAX, INC.	1,400	$ 41,188.58	$ 77,525.00
AMERICAN CYANAMID CO.	1,000	57,563.84	55,250.00
EASTMAN KODAK CO.	400	32,106.00	41,300.00
EXXON CORP.	709	31,515.53	65,583.00
FEDERATED DEPARTMENT STORES	1,000	33,202.56	49,875.00
GENERAL ELECTRIC CO.	800	39,597.69	42,100.00
GENERAL FOODS CORP.	900	34,050.81	24,075.00
GENERAL MOTORS CORP.	321	25,556.94	15,649.00
GENERAL SIGNAL	1,433	38,311.28	59,111.00
GOODYEAR TIRE & RUBBER CO.	1,500	37,088.78	28,500.00
HERCULES, INC.	800	17,914.76	25,600.00
HONEYWELL, INC.	500	56,848.26	20,000.00

SCHEDULE B-2

ENDOWMENT FUNDS - PRINCIPAL

STATEMENT OF POOLED INVESTMENTS
AS OF JUNE 30, 1975

DESCRIPTION	DATE OF ACQUISITION OR NUMBER OF SHARES	COST OR BOOK VALUE	MARKET VALUE
COMMON STOCK - INDUSTRIAL (CONTINUED)			
I. B. M. CORP.	200	$ 42,498.76	$ 41,800.00
JOHNSON & JOHNSON	145	14,166.65	14,119.00
MARATHON OIL CO.	800	36,271.08	40,300.00
MINNESOTA MINING & MFG CO.	500	23,464.45	33,625.00
MOTOROLA	600	28,652.07	30,150.00
NABISCO, INC.	800	41,562.50	31,800.00
NATIONAL GYPSUM CO.	1,500	34,618.15	20,063.00
NEWMONT MINING CORP.	1,600	47,014.45	38,200.00
J. C. PENNY CO.	500	14,508.44	29,000.00
PFIZER, INC.	1,050	24,021.00	35,175.00
SMITH, KLINE CORP.	600	31,701.85	31,800.00
XEROX CORP.	400	38,011.98	28,050.00
TOTAL COMMON STOCK - INDUSTRIAL		$ 821,436.41	$ 878,650.00
COMMON STOCK - UTILITY			
AMERICAN NATURAL GAS CO.	900	$ 34,326.18	$ 31,613.00
AMERICAN TELEPHONE AND TELEGRAPH CO.	858	25,566.43	43,651.00
SOUTHERN CO.	800	17,102.62	10,500.00
VIRGINIA ELECTRIC POWER CO.	1,200	8,546.77	15,450.00
TOTAL COMMON STOCK - UTILITY		$ 85,542.00	$ 101,214.00
TOTAL POOLED INVESTMENTS		$1,641,262.91	$1,543,861.50

SCHEDULE B-3

ENDOWMENT FUNDS - PRINCIPAL

STATEMENT OF INVESTMENT NOT IN POOL FUND
AS OF JUNE 30, 1975

COMMON STOCK	DATE OF ACQUISITION OR NUMBER OF SHARES	COST OR BOOK VALUE
GENERAL MOTORS	100	$ 4,537.50
LAND		
FRANKLIN COUNTY, OHIO	3/11/58	$ 41,765.00
	12/31/58	16,795.00
	2/23/60	33,600.00
	2/28/61	24,068.90
	1/17/62	35,070.33
		$151,299.23

STATEMENT OF NOTES RECEIVABLE AS OF JUNE 30, 1975

F. A. BARTLETT TREE EXPERT CO.	5%	$ 44,000.00	(1)

(1) Note to be paid in installments of $22,000 each on the first day in November.

SCHEDULE B-4

UNIVERSITY OF MASSACHUSETTS - PRESIDENT'S OFFICE
ENDOWMENT PRINCIPAL

ACCOUNT NAME	ACCOUNT CODE	BALANCE AS OF JULY 1, 1974	ADDITIONS	BALANCE AS OF JUNE 30, 1975
PRESIDENT'S OFFICE				
BURNHAM EMERGENCY	51100	$ 7,742.23	$	$ 7,742.23
LUCIUS CLAPP	51600	8,740.42		8,740.42
ENDOWMENT FROM STATE	52600	-0-		-0-
GENERAL ENDOWMENT	53250	-0-		-0-
M D & A H LINCOLN FUND	54600	478,638.21		478,638.21
MURRAY D LINCOLN LAND	54700	151,299.23		151,299.23
FREDRICK H READ	56400	1,699.55		1,699.55
WILLIAM R SESSIONS	56900	4,780.97		4,780.97
ROY E TORREY MEMORIAL	57500	1,018.50	56.92	1,075.42
WILLIAM WHEELER	57800	10,855.91		10,855.91
TOTAL PRESIDENT'S OFFICE		$664,775.02	$ 56.92	$664,831.94
AMHERST				
DONALD P ALLAN SCHOL	50000	$ 6,820.00	$ 150.00	$ 6,970.00
ALPHA SIGMA PHI SCHOL	50100	7,100.00		7,100.00
ALVORD DAIRY SCHOLARSHIP	50200	4,197.15		4,197.15
OSCAR G ANDERSON SCHOL	50300	1,015.00		1,015.00
ASCENSION FARM SCHOL	50500	119,975.79		119,975.79
D K BANGS SCHOLARSHIP	50600	5,861.58		5,861.58
GEORGE H BARBER	50700	5,073.86		5,073.86
GEORGE H BARBER/MHR	50701	540.25	151.32	691.57
OSWALD BEHREND AWARD	50900	1,198.33		1,198.33
SEYMOUR BAROWSKY	51000	5,000.00		5,000.00
JOHN & NANCY BUTTERWORTH	51200	10,000.00		10,000.00
BUTTRICK SCHOLARSHIP	51300	10,000.00		10,000.00
THEODORE C CALDWELL	51400	1,153.10	60.43	1,213.53
RAYMOND CHAMBERLIN	51450		6,335.80	6,335.80
HAROLD W CARY PRIZE FUND	51500	846.51	44.36	890.87
CLASS OF 1882 MSC SCHOL	51800	1,990.23	51.90	2,042.13
GEORGE & EDITH CODDING	51900	388,464.70		388,464.70
GUY CHESTER CRAMPTON	52000	2,539.03		2,539.03
F G CRANE	52100	25,518.08		25,518.08
JOHN C CUTTER	52200	1,098.41		1,098.41
STEPHEN DAVIS SCHOL	52300	19,175.00		19,175.00
DISTINGUISHED VISITORS	52400	70,168.22	521.84	70,690.06
E W ELDRIDGE JR MEMORIAL	52500	1,555.00		1,555.00
GEORGE L FARLEY FUND	52700	5,000.00		5,000.00
R C FOLEY SCHOL	52800	5,045.00	100.00	5,145.00
HARRY L FOLSON HOO HOO	52900	11,046.07	22.69	11,068.76
J D W FRENCH FUND	53000	10,743.41		10,743.41
KATHRYN F FURCOLO	53100	10,452.63	523.80	10,976.43
GASSETT SCHOLARSHIP	53200	1,462.20		1,462.20
GENERAL ENDOWMENT	53260	-0-	265.50	265.50
CHARLES A GLEASON	53300	3,731.73		3,731.73
GRINNEL PRIZE FUND	53400	125.94		125.94
M R POMERY HAMLIN	53500	33,537.36		33,537.36
C C HAMLIN	53600	119.65		119.65
WALTER H HARRISON	53700	11,836.14		11,836.14
[illegible]	53800	2,139.00	7,636.66	9,775.66
[illegible]	54000	15,523.89		15,523.89
CLIFTON JOHNSON (MRS.)	54200	3,411.47		3,411.47
HELEN KNOWLTON	54300	15,000.00		15,000.00
[illegible]	54400	9,737.93	461.20	10,199.13
[illegible]	54500	11,027.85		11,027.85
[illegible]	54800	13,804.82	691.80	14,496.62
MARY A MAHER SCHOL	54900	7,043.85		7,043.85
ELIZABETH L MCNAMARA	55000	1,000.00		1,000.00

SCHEDULE B-4

UNIVERSITY OF MASSACHUSETTS - PRESIDENT'S OFFICE
ENDOWMENT PRINCIPAL

ACCOUNT NAME	ACCOUNT CODE	BALANCE AS OF JULY 1, 1974	ADDITIONS	BALANCE AS OF JUNE 30, 1975
OREANA MERRIAM EDUCATION	55100	$ 1,623.02	$	$ 1,623.02
U OF M METAWAMPE FUND	55200	1,050.00		1,050.00
HELEN MITCHELL	55300	6,850.00		6,850.00
JEFFERY MORGAN	55350	3,520.00	250.00	3,770.00
PORTER L NEWTON	55400	24,204.46		24,204.46
J CLARK OSTERHOUT	55500	396.95		396.95
BETSY PINKERTON	55600	4,500.00		4,500.00
CHARLES A PETERS	55700	1,162.77		1,162.77
CHARLES S PLUMB FUND	55800	4,864.56	128.34	4,992.90
FRANK H PLUMB	55900	13,427.17		13,427.17
ROBERT POMEROY	56000	1,535.95		1,535.95
A L POND	56100	1,054.78		1,054.78
WILLIAM PROCTER FELLOW	56200	2,000.00		2,000.00
FRANK PRENTICE RAND	56280	-0-	5,000.00	5,000.00
V A RICE SCHOLARSHIP	56500	2,784.11		2,784.11
MARY ROBINSON	56600	3,000.00		3,000.00
ILENE SHARON SAVAL	56750	2,869.40	143.79	3,013.19
FRANK R SHAW	57000	1,221.29	99.00	1,320.29
PHILIP SHEINFIELD	57100	5,984.00		5,984.00
H F STAPLES MEMORIAL	57200	51,469.82	437.26	51,907.08
BETTY STEINBUGLER	57300	200.00		200.00
STOCKBRIDGE SCHOOL ALUMN	57400	1,986.38	42.00	2,028.38
HARVEY SWADOS	57470	-0-	4,175.00	4,175.00
RUTH J TOTMAN MEMORIAL	57600	949.17		949.17
FRANK M WEST FORESTRY	57700	18,328.55		18,328.55
WHITING STREET SCHOL	57900	2,021.70		2,021.70
HELEN A WHITTIER	58000	3,338.22		3,338.22
TOTAL AMHERST		$1,021,421.48	$27,292.69	$1,048,714.17
BOSTON				
GENERAL ENDOWMENT	53270	$ -0-	$	$ -0-
RICHARD T HOGAN	54000	6,504.57	537.13	7,041.70
BRIAN RATTIGAN	56300	923.11		923.11
JOHN RYAN FACULTY COV	56700	872.91		872.91
V C SAVIO SCHOL	56750	-0-	4,537.50	4,537.50
TOTAL BOSTON		$ 8,300.59	$ 5,074.63	$ 13,375.22
WORCESTER				
EDMUND & PHYLLIS CROCE	50400	$ 41,390.05		41,390.05
GENERAL ENDOWMENT	53280	-0-		-0-
ENDOWMENT PRINCIPAL TOTAL		$1,735,887.14	$32,424.24	$1,768,311.38

SCHEDULE B-5

UNIVERSITY OF MASSACHUSETTS - OFFICE OF THE PRESIDENT

ENDOWMENT INCOME ON INVESTMENTS

	ACCOUNT CODE	BALANCE JULY 1, 1974	RECEIPTS	TRANSFERS	EXPENDITURES	BALANCE JUNE 30, 1975
[illegible]						
[illegible]						
[illegible]	0-37160	$ 1,784.02	$ 461.62	$ -0-	$ -0-	$ 2,245.64
[illegible]	0-37360	91.58	7.47	-0-	-0-	99.05
TOTAL STUDENT AID & SCHOLARSHIP		$ 1,875.60	$ 469.09	$ -0-	$ -0-	$ 2,344.69
[illegible]						
[illegible]	0-37110	$ 308.42	$ 409.64	$ -0-	$ 282.50	$ 325.56
[illegible]	0-37640	327.77	91.97	-0-	238.17	181.57
WILLIAM R. SESSIONS	0-37690	894.33	254.55	-0-	500.00	648.88
WILLIAM WHEELER	0-37780	376.61	373.03	-0-	20.15	929.49
TOTAL GENERAL PURPOSE		$ 1,997.13	$ 1,329.19	$ -0-	$ 1,040.82	$ 2,285.50
OTHER						
ENDOWMENT [illegible]	0-37260	$ 6,119.02	$ 4,148.63	$ -0-	$ 6,207.08	$ 4,060.57
ADMINISTRATION OF ENDOWMENTS	0-37990	15,320.05	-0-	(9,469.59)	4,137.51	1,712.95
TOTAL OTHER		$21,439.07	$ 4,148.63	$(9,469.59)	$10,344.59	$ 5,773.52
MISCELLANEOUS						
MURRAY D & ANNE H LINCOLN	0-37460	$ 7,565.61	$27,853.40	$ -0-	$ -0-	$35,419.01
MURRAY D LINCOLN LAND	0-37470	296.69	-0-	-0-	-0-	296.69
ROY E TORREY	0-37750	-0-	56.92	(56.92)	-0-	-0-
TOTAL MISCELLANEOUS		$ 7,862.30	$27,910.32	$ (56.92)	$ -0-	$35,715.70
ENDOWMENT INCOME ON INVESTMENTS - TOTAL		$33,174.10	$33,857.23	$(9,526.81)	$11,385.41	$46,119.41

UNIVERSITY OF MASSACHUSETTS

at Amherst

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
CURRENT FUNDS UNRESTRICTED					
010175	P/C AMHERST/CASHIER	100,000.00-	100,000.00	.00	.00
010176	P/C AMHERST/TRAVEL	20,000.00-	20,000.00	.00	.00
011020	REIMBURSABLE GRANT-AMH	200,000.00	.00	.00	200,000.00-
011101	A/R UMBA PROJECT 1 RENT	.00	1,360.75	.00	1,360.75-
011102	A/R UMBA PROJECT 2 RENT	.00	4,708.05	.00	4,708.05-
011103	A/R UMBA PROJECT 4 RENT	.00	4,224.80	.00	4,224.80-
011104	A/R UMBA PROJECT 5 RENT	.00	7,265.25	.00	7,265.25-
011105	A/R UMBA PROJECT 8 RENT	.00	7,250.16	.00	7,250.16-
011106	A/R UMBA PROJECT 10 RENT	.00	4,636.25	.00	4,636.25-
011107	A/R UMBA PROJECT 11 C C	.00	10,063.92	.00	10,063.92-
011108	A/R UMBA PROJECT 12 RENT	.00	7,694.43	.00	7,694.43-
011109	A/R ACTIVITIES FEE	.00	4,361.05	.00	4,361.05-
011110	A/R ATHLETIC FEE	.00	2,800.35	.00	2,800.35-
011111	A/R BOARDING HALL	.00	17,740.86	.00	17,740.86-
011112	A/R COMMENCEMENT FEE	.00	191.00	.00	191.00-
011113	A/R FINE ARTS FEE	.00	829.30	.00	829.30-
011114	A/R GRAD TAX	.00	542.85	.00	542.85-
011115	A/R HEALTH FEE	.00	12,994.97	.00	12,994.97-
011116	A/R I D	.00	268.20	.00	268.20-
011117	A/R INSURANCE	.00	4,356.25	.00	4,356.25-
011118	A/R PHYSICAL EDUCATION	.00	800.25	.00	800.25-
011119	A/R PROGRAM FEE	.00	20.00	.00	20.00-
011120	A/R RESIDENT HALL RENT	.00	9,969.53	.00	9,969.53-
011121	A/R TEMPORARY RENT HOLD	.00	2,146.00	.00	2,146.00-
011122	A/R TELEPHONE	.00	3,683.10	.00	3,683.10-
011123	A/R WMPIRG	.00	845.22	.00	845.22-
011400	STATE-ACCOUNTS RECEIVAB	.00	114,166.62	.00	114,166.62-
012401	INVENTORY OF FARM PRODUC	.00	12,409.13	.00	12,409.13-
013000	SUSPENSE	500.00	500.00-	.00	.00
015000	PAYROLL W/H-FED GROUP IN	268,399.43	.00	268,399.43-	.00
015001	EMP GROUP IN/ADMIN COSTS	2,902.31-	.00	2,906.30	3.99-
015020	PAYROLL W/H-FED RETIRE	33,816.82-	.00	33,816.32	.00
015030	PAYROLL W/H-SAVINGS BOND	5,141.25	.00	5,141.25-	.00
015040	PAYROLL W/H-FICA	.01-	.00	.01	.00
015421	STATE ACCT PAY PR YR/PSH	53,162.67	.00	53,162.67-	.00
015431	STATE ACCT PAY PR YR/PSH	1,341.70	.00	1,341.70-	.00
015451	STATE ACCT PAY PR YR/AMH	1,783,869.25	.00	1,783,869.25-	.00
015471	STATE ACCT PAY PR YR/BDS	1,065,070.91	.00	1,065,070.91-	.00
015491	STATE ACCT PAY PR YR/WOR	1,029,178.20	.00	1,029,178.20-	.00
015495	STATE ACCT PAY/P4 OTH MA	121,578.47	.00	121,578.47-	.00
016500	SCHOL CLEARING/AMHERST	13,202.50-	43,935.00-	57,137.50	.00
016510	STUDENT HOUSING DEPOSIT	1,191,500.00	100,000.00	1,291,500.00-	.00
016520	LINCOLN & UNIV SECURITY	18,649.59	1,500.00-	17,149.59-	.00

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
016521	LINCOLN & UNIV INTEREST	248.22	.00	318.88	567.10-
016530	NORTH VILLAGE SECURITY	22,358.75	6,000.00	28,358.75-	.00
016531	NORTH VILLAGE INTEREST	708.80	.00	694.77	1,403.57-
016600	STATE-CURRENT YEAR REFUN	8,256.52	.00	8,256.52-	.00
016601	TUITION & FEES/AMHERST	158,987.15	.00	158,987.15-	.00
016602	UNDIST RENT/AMHERST	340.00	.00	340.00-	.00
016750	STUDENT HEALTH SERV/PERM	53,166.68	.00	54,426.21-	1,259.53
016751	STUDENT HEALTH SERV/EDUC	52,896.31	.00	52,896.31-	.00
016760	ATHLETIC RESERVE-REG	27,049.49	.00	27,049.49-	.00
016761	ATHLETIC RESERVE-SPECIAL	164,991.97	.00	164,991.97-	.00
019105	AMHERST CAMPUS INCOME	2,548,809.79	.00	.00	2,548,809.79-
019202	STATE INCOME	1,236.17-	.00	.00	1,236.17
019340	UMBA PROJECT #10	31,221.30	.00	259,000.00-	227,778.70
019341	UMBA PROJECT #1	202,692.12	.00	.00	202,692.12-
019342	UMBA PROJECT #2	464,952.19	.00	.00	464,952.19-
019343	UMBA PROJECT #13	44,294.06	.00	135,000.00-	90,705.94
019344	UMBA PROJECT #4	93,339.84	506,000.00	.00	599,339.84-
019345	RESIDENCE HALL TRUST	716,535.50	55,000.00	.00	771,535.50-
019346	UMBA PROJECT #6	61,660.75	320,000.00	.00	381,660.75-
019347	LINCOLN & UNIVERSITY APT	115,992.72	.00	.00	115,992.72-
019348	UMBA PROJECT #8	36,008.03	.00	115,000.00-	78,991.97
019349	UMBA PROJECT #12	34,791.60	.00	372,000.00-	337,208.40
019350	UNIVERSITY STORE	136,921.09-	13,000.00	.00	123,921.09
019351	FOOD SERVICE	240,316.28	.00	.00	240,316.28-
019352	ACCOMMODATIONS SERVICES	376,699.45	1,400.00	.00	378,099.45-
019353	PARKING GARAGE	78,729.54-	100.00	150,000.00-	228,629.54
019354	RETAIL SERVICES	3,810.62-	.00	.00	3,810.62
019355	MAINTENANCE & OPERATING	656,277.74-	35,000.00	.00	621,277.74
019356	STUDENT AUTOMATIC SERV	90,441.48	.00	.00	90,441.48-
019357	LAB FEES	184,966.99	.00	.00	184,966.99-
019358	ATHLETIC TRUST	39,839.98	5,000.00	.00	44,839.98-
019359	BOWLING ALLEY & LAUNDRY	415.86-	.00	.00	415.86
019360	GEN REC & INTRAMURALS	25,810.91	.00	.00	25,810.91-
019362	ATHLETIC EVENTS TRUST	15,718.16	.00	.00	15,718.16-
019363	STUDENT HEALTH SERVICES	459,089.36	.00	.00	459,089.36-
019364	BOARDING HALLS	361,173.96	.00	.00	361,173.96-
019365	CONTINUING EDUCATION	112,638.13	.00	.00	112,638.13-
019366	NEW STUDENTS COUNSELING	175,074.24	.00	.00	175,074.24-
019367	DORMITORY PERSONNEL	303,754.06-	.00	.00	303,754.06
019368	GENERAL SERVICES TRUST	340,407.73	.00	.00	340,407.73-
019369	RESIDENCE HALL TEL TRUST	84,350.80	.00	.00	84,350.80-
019370	BALANCED TRANS & PARKING	180,130.47	.00	.00	180,130.47-
019371	COMPUTER TRUST FUND	13,324.70-	.00	.00	13,324.70
019372	PHOTO CENTER TRUST	23,637.56	.00	.00	23,637.56-
019373	UNIV COPY CENTERS	33,434.95	.00	.00	33,434.95-

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
019374	UNIV DAY CARE CENTER	12,305.01	.00	.00	12,305.01-
019375	UNIV PRESS	112,327.03	.00	.00	112,327.03-
019376	RESEARCH COUNCIL SERVICE	35,608.38	.00	.00	35,608.38-
019377	ACADEMIC THEATRE	741.52	.00	.00	741.52-
019378	UNIV CHILD CARE CENTERS	4,744.53	.00	.00	4,744.53-
019379	SUMMER HOUSING	48,433.92	.00	48,388.92-	45.00-
	* FUND GROUP TOTAL *	12,171,692.18	1,350,893.29	7,116,712.01-	6,405,873.46-

CURRENT FUNDS RESTRICTED

020000	MAIZE RESEARCH	288.61	.00	.00	288.61-
020001	MA MARINE SERV INDUS STU	67.06	.00	.00	67.06-
020002	REMOTE SENSING/MACDONEL	1,259.69	.00	.00	1,259.69-
020003	SOIL & HEALTH	246.88	.00	.00	246.88-
020005	ALCOA FOUNDATION	2,719.45	.00	.00	2,719.45-
020008	AMER DIABETES ASSOC	125.93	.00	.00	125.93-
020009	AMER PETROLEUM INST	457.11	.00	.00	457.11-
020010	ARTHRITIS FOUNDATION	.06	.00	.00	.06-
020011	AINSA-HUMAN POTENTIAL	1,329.82-	.00	.00	1,329.82
020013	N E VEGETABLE GROWERS	926.85	.00	.00	926.85-
020015	CARNEGIE/ALLEN	.29	.00	.00	.29-
020018	CARNEGIE/PLATT	1,058.58	.00	.00	1,058.58-
020023	COTTRELL/MCGILL	189.06	.00	.00	189.06-
020024	COTTRELL/MILLER	255.45	.00	.00	255.45-
020025	COTTRELL/PARSONS	4,480.94	.00	.00	4,480.94-
020029	EARLY CHILDHOOD TRAINING	5,180.35-	.00	.00	5,180.35
020031	ESSO ED FOUNDATION	2,461.62	.00	.00	2,461.62-
020032	EXXON ED FOUNDATION	5,203.93	.00	.00	5,203.93-
020037	FORD 700-01430	32,064.58-	.00	.00	32,064.58
020038	FORD/ACHEBE	6,126.13	.00	.00	6,126.13-
020039	HERMAN FRASCH FOUND 2	1,658.04	.00	.00	1,658.04-
020040	GEN ELECT/RITTER	19,149.06	.00	.00	19,149.06-
020041	GITTLESON FOUND SOC PSYC	2,474.02	.00	.00	2,474.02-
020043	GRANT FOUNDATION	68,399.97	.00	.00	68,399.97-
020044	GULF 731-5AA80-3	63.92	.00	.00	63.92-
020045	GULF 731DAA80-3	2,554.51	.00	.00	2,554.51-
020046	HAMPSHIRE MENTAL HEALTH	1,796.99	.00	.00	1,796.99-
020048	HUMAN RESOURCES CORP	334.35	.00	.00	334.35-
020050	KELLOGG FOUND/TEACH IMP	43,657.53	.00	.00	43,657.53-
020051	KETTERING FOUND/SCHIMMEL	2,137.51-	.00	.00	2,137.51
020054	LOWER PIONEER VALLEY REG	2,747.67	.00	.00	2,747.67-
020057	MA COUNTY ADMIN ASSOC	489.96-	.00	.00	489.96
020059	MA SCI & TECH FOUND/RED	2,290.85-	.00	.00	2,290.85

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
020093	MERCK CO FOUNDATION	615.32	.00	.00	615.32-
020096	CHARLES E MERRILL	1,707.81	.00	.00	1,707.81-
020097	MORSE FOUNDATION	134.59	.00	.00	134.59-
020099	NEW ENG AQUARIUM/SEARS	800.00-	.00	.00	800.00
020100	N E CTR FOR CONT ED	3,700.93-	.00	.00	3,700.93
020101	NECEP/REGIONAL PROGRAM	2,452.06-	.00	.00	2,452.06
020104	OCEAN ENGR RES PROJECT	2.07	.00	.00	2.07-
020105	P A C E INC	150.71	.00	.00	150.71-
020108	PITTS ANTI-TUBER ASSOC	9,002.80	.00	.00	9,002.80-
020112	POP COUNCIL/HOWE #2	388.42	.00	.00	388.42-
020113	AMER CHEM PRF	3,683.02	.00	.00	3,683.02-
020117	AMER CHEM PRF 5129-AC1	4,331.90	.00	.00	4,331.90-
020118	AMER CHEM PRF 6393-AC3	2,225.24	.00	.00	2,225.24-
020120	AMER CHEM PRF 3357-AC3	6,087.27	.00	.00	6,087.27-
020121	AMER CHEM PRF 6112-AC6	1,698.57	.00	.00	1,698.57-
020122	AMER CHEM PRF 6394-AC6	1,528.95	.00	.00	1,528.95-
020123	AMER CHEM PRF 7237-AC2	2,879.21	.00	.00	2,879.21-
020124	AMER CHEM PRF 6945-AC4	4,234.57	.00	.00	4,234.57-
020127	RESEARCH SERVICE-AGR	1,913.92-	.00	.00	1,913.92
020130	SHAW FOUND/ED REHAB	1,468.03	.00	.00	1,468.03-
020132	A P SLOAN 73-12-4	80,567.29	.00	.00	80,567.29-
020133	A P SLOAN BR-1435	17,449.09	.00	.00	17,449.09-
020134	SPENCER FOUNDATION	1,609.15	.00	.00	1,609.15-
020135	STEARNS	8.27	.00	.00	8.27-
020141	WILDLIFE MANAGEMENT	1,188.50	.00	.00	1,188.50-
020146	RUSSELL SAGE FOUNDATION	19,781.98	.00	.00	19,781.98-
020147	COUN INTER ED EXCHANGE	239.80	.00	.00	239.80-
020149	AMER CHEM PRF 7774 AC5-7	8,592.81	.00	.00	8,592.81-
020150	SIECUS/HUMAN SEX BLK EXP	2,027.75	.00	.00	2,027.75-
020154	COTTRELL/FISHER	1,222.86	.00	.00	1,222.86-
020156	NEW ENG RIVER BASIN COMM	653.51-	.00	.00	653.51
020157	MAX KADE PROFESSORSHIP	2.32	.00	.00	2.32-
020160	RUSSELL SAGE FOUND/ROSS	1,245.05	.00	.00	1,245.05-
020161	MERCK/LITSKY	8,521.74	.00	.00	8,521.74-
020162	NEW ENG REG COM/KREPLICK	1,164.50-	.00	.00	1,164.50
020165	AMER CHEM PRF 7993 AC 4	3,420.87	.00	.00	3,420.87-
020167	NEW ENG CTR/ERTEL	5,236.11-	.00	.00	5,236.11
020168	ARTS IN ACTION	2,408.41	.00	.00	2,408.41-
020176	A P SLOAN FDN/DIXON	10,514.49	.00	.00	10,514.49-
020179	COTTRELL/PAPADOPOULOS	5,997.00	.00	.00	5,997.00-
020181	W H DONNER FOUND	23,150.00	.00	.00	28,150.00-
020183	INCRA #1	15,694.55	.00	.00	15,694.55-
020184	MOBIL FOUNDATION/ABLE	795.20	.00	.00	795.20-
020187	ACADEMY APPLIED SCIENCE	4,877.62-	.00	.00	4,877.62
020190	ROCKEFELLER BROS FUND	28,483.40	.00	.00	28,483.40-

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
020192	AMER CANCER SOC/NORKIN	17,863.92	.00	.00	17,863.92-
020193	ORTHO RES FOUND	2,107.00	.00	.00	2,107.00-
020194	RESOURCES FUTURE/KINDAHL	7,922.39	.00	.00	7,922.39-
020195	A P SLOAN/ZUBR	1,969.00	.00	.00	1,969.00-
020199	MOBIL RESEARCH CORP/WISE	2,000.00	.00	.00	2,000.00-
020201	EXXON ED FOUND/CEAS	9,831.00	.00	.00	9,831.00-
020500	AGWAY ENGR	3,153.73	.00	.00	3,153.73-
020501	AGWAY/CLAYTON	4,505.15	.00	.00	4,505.15-
020502	AGWAY DLA FUND	4,699.84	.00	.00	4,699.84-
020503	AGWAY FENNER	2,720.28	.00	.00	2,720.28-
020504	AGWAY PLANT SCI	1,466.49	.00	.00	1,466.49-
020505	AGWAY JENSEN	216.34	.00	.00	216.34-
020506	AMCCO FOODS CO	1,001.59	.00	.00	1,001.59-
020507	BORG-WARNER CHEM	6,024.00	.00	.00	6,024.00-
020508	BEECH NUT FUND	488.20	.00	.00	488.20-
020509	BOURNE	2,068.15	.00	.00	2,068.15-
020510	CAPE COD	4,190.09	.00	.00	4,190.09-
020513	CHIC BORING AND TEST LAB	87.37-	.00	.00	87.37
020514	HEUBLEIN	14,609.26	.00	.00	14,609.26-
020515	KIMBERLY CLARK MUELLER	294.82	.00	.00	294.82-
020516	KIMBERLY CLARK LITSKY	2,054.51	.00	.00	2,054.51-
020517	COMBUSTION ENG INC	99.00	.00	.00	99.00-
020518	CONWED CORP	322.23	.00	.00	322.23-
020519	CRANBERRY BY PRODUCTS	8,076.79	.00	.00	8,076.79-
020520	CONTROL DATA CORP	3,764.67	.00	.00	3,764.67-
020521	DYNATECH CORP	1,747.14-	.00	.00	1,747.14
020522	DAIRY GENETIC	6,050.23	.00	.00	6,050.23-
020523	ENG MINORITY STU PROG	237.36	.00	.00	237.36-
020527	GENERAL ELECTRIC/GALE	505.59	.00	.00	505.59-
020528	GENERAL ELECTRIC/STEIN	7,373.22	.00	.00	7,373.22-
020529	GENERAL FOODS CORP	15,366.00	.00	.00	15,366.00-
020530	GENERAL TIRE	10,892.81	.00	.00	10,892.81-
020531	GEROVITAL/CRANBERRY	775.25	.00	.00	775.25-
020532	HAYSTACK CORP	72.45	.00	.00	72.45-
020533	HERCULES KAWASZ	915.94	.00	.00	915.94-
020534	HOFFMANN-LAROCHE	2,094.61	.00	.00	2,094.61-
020537	IMASCO FOODS LTD	5,966.13	.00	.00	5,966.13-
020538	KELCO COMPANY	15,782.51	.00	.00	15,782.51-
020539	KRATENE	1,366.61	.00	.00	1,366.61-
020540	LEPTOSPIROSIS	285.42	.00	.00	285.42-
020541	LEUCOSIS FUND	9,274.12	.00	.00	9,274.12-
020543	MASS GOLF ASSOC	12,632.80	.00	.00	12,632.80-
020548	MILLIPORE CORP	2,236.91	.00	.00	2,236.91-
020549	MIRLIN CORP	131.45-	.00	.00	131.45
020550	MIRLIN CORP/NAWAR	641.04-	.00	.00	641.04

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UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
020551	MITSUBISHI	1,019.91	.00	.00	1,019.91-
020552	MONSANTO CHEM	838.57	.00	.00	838.57-
020553	MONSANTO POLYMER	4,531.84	.00	.00	4,531.84-
020554	MONSANTO/MIDDLEMAN	426.59	.00	.00	426.59-
020555	NORTHEAST UTILITIES	361.54	.00	.00	361.54-
020556	N E UTILITIES-NEPCO	109.90	.00	.00	109.90-
020557	NORTON	213.97	.00	.00	213.97-
020558	ONDRICK CONST CO	27.22	.00	.00	27.22-
020559	OCEAN SPRAY CRANBERRY	207.55	.00	.00	207.55-
020560	PESTICIDE EVALUATION	1,922.02	.00	.00	1,922.02-
020561	POLYMER SCI & ENGR	33,360.85	.00	.00	33,360.85-
020562	POULTRY INST-JRS FUND	324.51	.00	.00	324.51-
020563	POULTRY VACCINE	264.90	.00	.00	264.90-
020564	QUAKER OATS CO	18.94	.00	.00	18.94-
020565	RUSH-HAMPTON INDUSTRIES	6,582.83	.00	.00	6,582.83-
020566	SPD TECHNOLOGY FUND-DLB	97.07	.00	.00	97.07-
020567	SANDOZ WANDER	2,212.41	.00	.00	2,212.41-
020568	STAUFFER CHEMICAL CO	1,278.06	.00	.00	1,278.06-
020570	SYMP ON COORD CHEMISTRY	20.42	.00	.00	20.42-
020571	TRAVENOL LAB TRUST FUND	4.55	.00	.00	4.55-
020572	TRAVENOL LAB NO 2	2,927.53	.00	.00	2,927.53-
020573	TAKEDA CHEMICAL	2,595.42	.00	.00	2,595.42-
020577	VEGETABLE CROPS	3,161.70	.00	.00	3,161.70-
020578	WEED BIOLOGY	901.80	.00	.00	901.80-
020579	WATER QUANT RES FUND	681.24	.00	.00	681.24-
020581	XEROX/STEIN	99.14	.00	.00	99.14-
020583	AVIAN DISEASES-GHS	16,473.97	.00	.00	16,473.97-
020584	COOP FISH PROJECT-09-13	35,281.59	.00	.00	35,281.59-
020585	ECON DEV SERVICES	543.67	.00	.00	543.67-
020586	MASS FLOWER GROWERS RS F	733.82	.00	.00	733.82-
020587	NATURAL RESOURCES	790.30	.00	.00	790.30-
020588	N E RES INC I/ZAJICEK	372.96-	.00	.00	372.96
020590	SHELL CRANBERRY	49.84	.00	.00	49.84-
020591	ST JOHNS CHILD CARE CTR	730.00-	.00	.00	730.00
020592	STF LABS INC	1,929.07	.00	.00	1,929.07-
020593	POLAROID SERVICE ACCOUNT	10,144.97	.00	.00	10,144.97-
020594	ESSO RESEARCH	1,692.72	.00	.00	1,692.72-
020595	FOSTER GRANT//ISL	2,014.42	.00	.00	2,014.42-
020596	ESSO RESEARCH/MACKNIGHT	1,773.16	.00	.00	1,773.16-
020597	EXXON CHEM/LENZ	250.16-	.00	.00	250.16
020599	MOBIL CHEM CO/CLAYTON	2,402.52	.00	.00	2,402.52-
020601	STUDENT MED INS(AMHERST)	284,939.61	.00	.00	284,939.61-
020602	KENDALL/MIDDLEMAN	373.75	.00	.00	373.75-
020603	SCHWEITZER/MIDDLEMAN	678.00	.00	.00	678.00-
020604	[MASCO/TORTILLAS	9,000.00	.00	.00	9,000.00-

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
020605	STERAN CHEM/ESS SOLN	4,323.63	.00	.00	4,323.63-
020606	UNION CARBIDE CORP #132	5,313.62-	.00	.00	5,313.62
020607	HOOKER CHEM/MACKNIGHT	1,904.51-	.00	.00	1,904.51
020608	RACE INC/WALEY #1	2,563.33	.00	.00	2,563.33-
020609	IBM/NAMON #1	1,964.48-	.00	.00	1,964.48
020610	3M/SURGICOT/DEXTER	8,436.59	.00	.00	8,436.59-
020612	HEALTH CARE SYSTEMS	15.00	.00	.00	15.00-
020613	KODAK/MIDDLEMAN	476.39	.00	.00	476.39-
020614	ADWAY/DAIRY CHEESE PRODCT	7,866.97	.00	.00	7,866.97-
020615	SMITH KLINE/DR COX	4,583.00	.00	.00	4,583.00-
020617	KENNECOTT COPPER/BARNES	7,321.45	.00	.00	7,321.45-
020618	BORG-WARNER/VAUREE	1,940.36	.00	.00	1,940.36-
020619	CONSTITUTION ENG(HORVAY 2)	851.50-	.00	.00	851.50
020620	MERCK,SHARP,S DOHME RES	6,731.63	.00	.00	6,731.63-
020622	EXXON/LENZ #2	1,325.26-	.00	.00	1,325.26
020623	MONSANTO/SHORT	8,939.99-	.00	.00	8,939.99
020624	BOSTER GRANT/NAGEL	500.00	.00	.00	500.00-
020625	NEW ENGLAND PKR/FEDER	3,000.00	.00	.00	3,000.00-
021000	RADIO ASTRONOMY OBSERV	12,478.41	.00	.00	12,478.41-
021003	MIT/SEA GRANT A/M-1.1	434.05-	.00	.00	434.05
021004	RUTGERS UNIV	847.22	.00	.00	847.22-
021005	UNIV FLORIDA	1,681.89	.00	.00	1,681.89-
021006	UNIV WISCONSIN	524.79-	.00	.00	524.79
021007	HARVARD UNIVERSITY	1,119.06-	.00	.00	1,119.06
021008	UNIV VERMONT	1,109.52-	.00	.00	1,109.52
021009	PIERCE PROGRAM	32,852.54	.00	.00	32,852.54-
021010	MIT 81946-501	7,860.05-	.00	.00	7,860.05
021011	MIT 81949-501	1,516.56-	.00	.00	1,516.56
021013	MIT-LUCILLE SHANES	3.90-	.00	.00	3.90
021014	FIVE COLLEGES INC FUND	836.77	.00	.00	836.77-
021015	UNIV R I/BERGER	701.22-	.00	.00	701.22
021016	SUNY/STONY BROOK RF SPEC	22,969.63	.00	.00	22,969.63-
021151	MUSCLE BIOCHEM LAB SUPPT	136.97	.00	.00	136.97-
021152	MARK SWANN	3,347.07	.00	.00	3,347.07-
021153	WHITE RESEARCH/TWE	1,978.65	.00	.00	1,978.65-
021155	JOSEPH OBREBSKI FUND	456.15	.00	.00	456.15-
022502	NSF GS 2746	.00	1,309.00	.00	1,309.00-
022504	NSF GZ 2317	.00	237.52	.00	237.52-
022506	NSF GU 4041	.00	36,212.01	.00	36,212.01-
022510	NSF GP 10925	.00	311.47	.00	311.47-
022516	NSF GR 12903	.00	976.73	.00	976.73-
022522	NSF GP 14110	.00	178.27	.00	178.27-
022526	NSF GP 14690	.00	31.80	.00	31.80-
022530	NSF GR 15767	.00	566.60	.00	566.60-
022538	NSF GP 16377	.00	5.35	.00	5.35

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UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
022540	NSF GK 18514	.00	793.86	.00	793.86-
022546	NSF GR 20491	.00	89.29	.00	89.29-
022548	NSF GP 20526	760.73-	.00	.00	760.73
022560	NSF GP 22533X	.00	79.43	.00	79.43-
022574	NSF GR 24557	.00	1,910.24	.00	1,910.24-
022578	NSF GR 25452	.00	4,145.37	.00	4,145.37-
022588	NSF GR 27644	232.57	46.03-	.00	186.54-
022590	NSF GA 28035	.00	4,832.28	.00	4,832.28-
022604	NSF GP 29664	.00	19,715.85	.00	19,715.85-
022620	NSF GR 30501	.00	449.24	.00	449.24-
022628	NSF GK 31490	.00	136.73	.00	136.73-
022632	NSF GA 31343	.00	2.02	.00	2.02-
022636	NSF GA 31989	.00	4,009.52	.00	4,009.52-
022638	NSF GR 31990	.00	14,741.75	.00	14,741.75-
022640	NSF GA 31870	.00	436.89	.00	436.89-
022642	NSF GA 32134	.00	26.02	.00	26.02-
022644	NSF GP 32414X	.00	318.05	.00	318.05-
022645	NSF MPS 75 03377	.00	64,030.97	.00	64,030.97-
022646	NSF GH 32372	.00	7,408.47	.00	7,408.47-
022648	NSF GK 32526X	.00	10,334.61	.00	10,334.61-
022652	NSF GR 32536X	.00	14,882.39-	.00	14,882.39
022654	NSF GA 33857	.00	21,820.52	.00	21,820.52-
022658	NSF GS 32735X	.00	761.36	.00	761.36-
022660	NSF GP 32960	.00	269.06	.00	269.06-
022664	NSF GK 33091	.00	4,452.87	.00	4,452.87-
022666	NSF GH 33129X	.00	13,078.06	.00	13,078.06-
022668	NSF GR 33434	.00	30,550.01	.00	30,550.01-
022672	NSF GS 33641	.00	9,485.48	.00	9,485.48-
022678	NSF GK 34180	.00	9,658.20	.00	9,658.20-
022682	NSF GH 34315X	.00	11,030.32	.00	11,030.32-
022686	NSF GP 34485	.00	16,898.09	.00	16,898.09-
022688	NSF GH 34504	.00	35,839.08	.00	35,839.08-
022690	NSF GH 34508	.00	8,287.87	.00	8,287.87-
022692	NSF GH 34534	.00	21,542.41	.00	21,542.41-
022694	NSF GK 33844	.00	52.30	.00	52.30-
022698	NSF GK 34756	.00	9,865.94	.00	9,865.94-
022700	NSF GH 34573	.00	26,562.65	.00	26,562.65-
022704	NSF GI 34976	.00	42,577.22	.00	42,577.22-
022706	NSF GI 34979	.00	156,905.57	.00	156,905.57-
022708	NSF GS 35283	.00	2,254.85	.00	2,254.85-
022710	NSF GR 35475	.00	2,563.24	.00	2,563.24-
022714	NSF GJ 35759	.00	48,842.34	.00	48,842.34-
022716	NSF GP 35873X	.00	9,768.87	.00	9,768.87-
022718	NSF GH 35911	.00	55,577.76	.00	55,577.76-
022720	NSF GR 36134X	.00	11,159.12	.00	11,159.12-

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
022732	NSF GP 36753	.00	173,627.35	.00	173,627.35-
022733	NSF GK 37089	.00	22,842.11	.00	22,842.11-
022732	NSF GR 36932	.00	1,043.10	.00	1,043.10-
022734	NSF GS 37277	86.00	1,095.40	.00	1,181.40-
022736	NSF GP 37493X	.00	44,447.82	.00	44,447.82-
022738	NSF GH 37252	.00	3,734.47	.00	3,734.47-
022740	NSF GK 37400	.00	8.86	.00	8.86-
022744	NSF GR 37663	.00	2,346.89	.00	2,346.89-
022746	NSF GP 37818	.00	727.94	.00	727.94-
022748	NSF GH 37361	.00	60.33	.00	60.33-
022752	NSF GS 37891	.00	4,354.01	.00	4,354.01-
022754	NSF GP 37917	.00	14,617.77	.00	14,617.77-
022758	NSF GK 38340	.00	3,141.04	.00	3,141.04-
022760	NSF GK 38148	.00	20,086.24	.00	20,086.24-
022762	NSF GR 38242	.00	954.81	.00	954.81-
022764	NSF GH 38347	.00	26,918.40	.00	26,918.40-
022766	NSF GP 38593X	3,736.90-	.00	.00	3,736.90
022768	NSF GH 38848	.00	6,011.42	.00	6,011.42-
022772	NSF GA 38837	.00	856.80	.00	856.80-
022776	NSF GH 39111	.00	2,058.03	.00	2,058.03-
022778	NSF GI 39644	.00	16,129.55	.00	16,129.55-
022780	NSF DI 39502	.00	3,735.61	.00	3,735.61-
022784	NSF GS 39752	.00	12,555.32	.00	12,555.32-
022786	NSF GA 40051	.00	8,539.68	.00	8,539.68-
022788	NSF GB 40075	.00	12,684.32	.00	12,684.32-
022790	NSF GS 40167	.00	30,585.60	.00	30,585.60-
022792	NSF GP 40756X	.00	27,617.99	.00	27,617.99-
022794	NSF GA 41256X	.00	24,188.54	.00	24,188.54-
022796	NSF GP 41168X	.00	17,185.97	.00	17,185.97-
022798	NSF GK 41268	.00	34,639.58	.00	34,639.58-
022800	NSF GS 41243	.00	14,384.53	.00	14,384.53-
022802	NSF GP 41696X	.00	62,575.29	.00	62,575.29-
022806	NSF GK 41645	.00	40,556.67	.00	40,556.67-
022808	NSF GJ 41829	.00	25,944.21	.00	25,944.21-
022810	NSF GB 41855	.00	600.00	.00	600.00-
022814	NSF GK 41349	.00	23,779.05	.00	23,779.05-
022822	NSF GW 8360	.00	1,732.58	.00	1,732.58-
022826	NSF GW 8448	.00	7,437.82	.00	7,437.82-
022830	NSF GY 10594	.00	494.81	.00	494.81-
022832	NSF GP 42195	.00	3,474.12	.00	3,474.12-
022840	NSF GY 10347	.00	220.91	.00	220.91-
022842	NSF GY 11912	.00	1,891.61	.00	1,891.61-
022848	NSF GK 29407	.00	58.23	.00	58.23-
022850	NSF GK 38461	.00	49.49	.00	49.49-
022854	NSF GP 42194	.00	28,598.26	.00	28,598.2

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
022856	NSF GY 11161	.00	723.87	.00	723.87-
022858	NSF GP 42542	.00	37,111.40	.00	37,111.40-
022860	NSF GB 42647	.00	25,154.75	.00	25,154.75-
022862	NSF GP 42756	.00	15,547.58	.00	15,547.58-
022864	NSF GP 42996X	.00	24,385.60	.00	24,385.60-
022866	NSF GB 43050	.00	10,877.32	.00	10,877.32-
022868	NSF GF 43079	.00	2,730.84	.00	2,730.84-
022870	NSF GB 43081X	.00	32,318.27	.00	32,318.27-
022872	NSF GB 43060	.00	11,106.47	.00	11,106.47-
022874	NSF GP 43408	.00	13,789.64	.00	13,789.64-
022876	NSF GS 43389	.00	36,203.90	.00	36,203.90-
022878	NSF GP 43584	.00	4,779.29	.00	4,779.29-
022880	NSF GK 43319	.00	4,986.21	.00	4,986.21-
022882	NSF GP-43814	.00	126.44	.00	126.44-
022884	NSF GP 43376	.00	320.23	.00	320.23-
022886	NSF GB 43598	.00	26,991.76	.00	26,991.76-
022888	NSF GP 43807	.00	5,662.14	.00	5,662.14-
022890	NSF GS 44217	.00	2,492.61	.00	2,492.61-
022892	NSF GY 11116	.00	6,008.69	.00	6,008.69-
022894	NSF GA 44235	.00	87,726.26	.00	87,726.26-
022902	NSF ATA 74-12611	.00	154,917.60	.00	154,917.60-
022904	NSF MPS 74-09933	.00	2,002.55	.00	2,002.55-
022906	NSF SOC 74 19359	.00	25,607.46	.00	25,607.46-
022908	NSF BMS 74 19341	.00	34,528.18	.00	34,528.18-
022910	NSF DMR 74 15629	.00	35,229.57	.00	35,229.57-
022912	NSF ENG 74 03396	.00	57,244.98	.00	57,244.98-
022914	NSF MPS 74 04305	.00	59,709.67	.00	59,709.67-
022916	NSF DMR 74 18030	.00	36,397.36	.00	36,397.36-
022922	NSF BMS 74 19489	.00	29,732.95	.00	29,732.95-
022924	NSF SOC 75 03438	.00	6,606.63	.00	6,606.63-
022926	NSF DES 74 22509	.00	39,155.26	.00	39,155.26-
022930	NSF OCR 74 20025	.00	45,362.96	.00	45,362.96-
022932	NSF MPS 74-11496	.00	63,696.62	.00	63,696.62-
022934	NSF BMS 75-02270	.00	42,709.68	.00	42,709.68-
022936	NSF MPS 74 23569	.00	26,397.31	.00	26,397.31-
022938	NSF BMS 74 21939	.00	8,700.00	.00	8,700.00-
022944	NSF MPS 74 15244	.00	88,763.65	.00	88,763.65-
022946	NSF BMS 74 21665	.00	42,004.82	.00	42,004.82-
022948	NSF SOC 75 07862	.00	15,679.66	.00	15,679.66-
022950	NSF ENG 74 17383	.00	39,470.82	.00	39,470.82-
022952	NSF EPP 75 04400	.00	8,802.17	.00	8,802.17-
022954	NSF ENG 74 02428	.00	55,413.42	.00	55,413.42-
022956	NSF ENG 75 10648	.00	15,241.00	.00	15,241.00-
022958	NSF AER 75 00603	.00	113,693.43	.00	113,693.43-
022960	NSF DMR 75 08733	.00	35,853.89	.00	35,853.89-

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UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
022962	NSF BMS 75 10433	.00	21,211.35	.00	21,211.35-
022964	NSF DMR 75 05004	.00	37,549.23	.00	37,549.23-
022966	NSF DMR 75 06916	.00	36,148.52	.00	36,148.52-
022968	NSF ENG 75 04353	.00	66,900.00	.00	66,900.00-
022970	NSF ENG 75 09334	.00	53,540.00	.00	53,540.00-
022972	NSF MPS 75 09730	.00	70,185.75	.00	70,185.75-
022974	NSF OIP 75 10061	.00	6,600.00	.00	6,600.00-
022976	NSF SCD 75 00975	.00	33,748.56	.00	33,748.56-
022978	NSF MPS 75 07605	.00	9,419.83	.00	9,419.83-
022980	NSF ENG 74 19921	.00	56,508.08	.00	56,508.08-
022982	NSF DMR 75 08630	.00	20,300.00	.00	20,300.00-
022984	NSF MPS 75 07455	.00	4,901.60	.00	4,901.60-
022986	NSF MPS 75 07494	.00	11,000.00	.00	11,000.00-
022988	NSF MPS 75 07442	.00	8,400.00	.00	8,400.00-
022990	NSF MPS 75 07470	.00	14,621.24	.00	14,621.24-
022992	NSF MPS 75 07574	.00	5,332.34	.00	5,332.34-
025010	NIH-PBRP-LOUTTIT	11,582.49-	.00	.00	11,582.49
025079	HEW RC-461	6,611.00	.00	.00	6,611.00-
025080	HEW RC-764	8,965.00	.00	.00	8,965.00-
025082	PHS OE 03512-03	1,546.20	.00	.00	1,546.20-
025094	PHS HEW EDA 223-73-2198	11,476.79-	.00	.00	11,476.79
025102	PHS RR-07048-09	.00	75,064.09	.00	75,064.09-
025106	PHS MH 01293-19	.00	22,238.55	.00	22,238.55-
025114	PHS HD 04189-05	.00	839.03	.00	839.03-
025115	PHS HD 04189-06	.00	12,974.52	.00	12,974.52-
025118	PHS HD 05432-02	.00	842.54	.00	842.54-
025123	PHS HD 06457-03	.00	5,905.00	.00	5,905.00-
025126	PHS HD 06604-02	180.88-	.00	.00	180.88
025138	PHS HD 06753-03	.00	1,927.66	.00	1,927.66-
025147	PHS HD 06788-03	.00	4,396.88	.00	4,396.88-
025151	PHS HD 07033-03	.00	12,008.03	.00	12,008.03-
025154	PHS HD 07397-02	.00	2,535.92	.00	2,535.92-
025155	PHS HD 07397-03	.00	33,723.20	.00	33,723.20-
025175	PHS HD 23551-02	759.98-	.00	.00	759.98
025176	PHS HD 23551-03	.00	4,355.29	.00	4,355.29-
025179	PHS MH 23886-02	.00	8,415.23	.00	8,415.23-
025180	PHS MH 23886-03	.00	36,493.46	.00	36,493.46-
025183	PHS MH 23959-03	.00	7,387.13	.00	7,387.13-
025189	PHS MH 25329-02	.00	29,830.34	.00	29,830.34-
025192	PHS ED 00282-04	.00	170.38	.00	170.38-
025200	PHS HS 00709-04	.00	7,011.71	.00	7,011.71-
025201	PHS HS 00709-05	.00	88,657.00	.00	88,657.00-
025204	PHS AI 00742-20	.00	93,426.85	.00	93,426.85-
025209	PHS ED 00153-09	.00	2,000.68	.00	2,000.68-
025213	PHS ES 00804-03	.00	24.42	.00	24.42-

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UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
025217	PHS LM 01658-03	.00	6,924.17	.00	6,924.17-
025220	PHS NS 08119-15	.00	818.82	.00	818.82-
025224	PHS NS 08306-05	.00	402.65	.00	402.65-
025229	PHS AI 06153-11	.00	10,777.04	.00	10,777.04-
025230	PHS AI 06153-12	.00	32,957.91	.00	32,957.91-
025233	PHS AI 06368-09	.00	149.73	.00	149.73-
025234	PHS AI 06848-10	.00	27,972.55	.00	27,972.55-
025237	PHS AI 08249-07	.00	976.65	.00	976.65-
025252	PHS NS 08869-04	.00	11,311.82	.00	11,311.82-
025256	PHS GM 09706-09	2,700.00	2,700.00-	.00	.00
025257	PHS GM 09706-10	.00	24,275.70	.00	24,275.70-
025261	PHS NS 09755-05	.00	7,046.68	.00	7,046.68-
025262	PHS NS 09755-06	.00	84,126.47	.00	84,126.47-
025274	PHS NS 10873-02	.00	62.50	.00	62.50-
025275	PHS NS 10873-03	.00	21,949.42	.00	21,949.42-
025278	PHS AI 10982-02	.00	1,674.59	.00	1,674.59-
025279	PHS AI 10982-03	.00	34,897.80	.00	34,897.80-
025281	PHS AI 11909-01	40.00-	.00	.00	40.00
025282	PHS AI 11909-02	.00	16,092.04	.00	16,092.04-
025286	PHS GM 21198-07	.00	27,657.23	.00	27,657.23-
025290	PHS AM 11157-08	.00	430.63	.00	430.63-
025291	PHS AM 11157-09	.00	33,617.91	.00	33,617.91-
025294	PHS GM 11071-12	1,184.95	3.79-	.00	1,181.16-
025295	PHS GM 11071-13	.00	64,474.90	.00	64,474.90-
025308	PHS CA 12948-03	.00	2,484.67	.00	2,484.67-
025313	PHS HL 13188-06	.00	21,517.91	.00	21,517.91-
025317	PHS CA 13272-03	.00	23,955.85	.00	23,955.85-
025321	PHS HL 14270-04	.00	12,099.49	.00	12,099.49-
025344	PHS CA 14674-02	.00	312.29	.00	312.29-
025345	PHS CA 14674-03	.00	12,739.00	.00	12,789.00-
025351	PHS GM 14945-08	.00	1,412.19	.00	1,412.19-
025352	PHS GM 14945-09	.00	38,582.71	.00	38,582.71-
025374	PHS GM 19351-03	.00	1,192.12	.00	1,192.12-
025375	PHS GM 19351-04	.00	46,242.87	.00	46,242.87-
025377	PHS GM 19848-02	.00	207.66	.00	207.66-
025378	PHS GM 19848-03	.00	29,796.28	.00	29,796.28-
025383	PHS GM 20909-02	.00	12,614.01	.00	12,614.01-
025394	PHS HD 00204-06	.00	20,636.76	.00	20,636.76-
025395	PHS HD 00204-07	.00	53,538.00	.00	53,538.00-
025414	PHS NU 00131-04	.00	4,671.61	.00	4,671.61-
025415	PHS NU 00131-05	.00	16,224.31	.00	16,224.31-
025420	PHS NU 00591-01	.00	340.08	.00	340.08-
025421	PHS NU 00591-02	.00	59,377.37	.00	59,377.37-
025422	PHS NU 00591-03	.00	62,653.48	.00	62,653.48-
025425	PHS NU 00592-02	.00	6,946.23	.00	6,946.23-

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UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
025426	PHS NI 00592-03	.00	9,941.96	.00	9,941.96-
025434	PHS MH 06244-20	.00	24,564.56	.00	24,564.56-
025435	PHS MH 06244-21	.00	106,449.00	.00	106,449.00-
025436	PHS MH 06400-19	.00	5,566.26	.00	5,566.26-
025442	PHS MH 11323-05	.00	13,540.26	.00	13,540.26-
025443	PHS MH 11323-07	.00	75,458.00	.00	75,458.00-
025446	PHS MH 12537-04	.00	17,229.14	.00	17,229.14-
025447	PHS MH 12537-05	.00	39,949.00	.00	39,949.00-
025449	PHS MH 13542-02	.00	3,907.93	.00	3,907.93-
025452	PHS MH 13492-02	.00	7,460.50	.00	7,460.50-
025453	PHS MH 13492-03	.00	85,120.00	.00	85,120.00-
025456	PHS AH 50110-03	.00	13,741.07	.00	13,741.07-
025460	PHS AH 50616-03	.00	2,241.44	.00	2,241.44-
025464	PHS AH 50617-03	.00	6,921.57	.00	6,921.57-
025468	PHS AH 50618-03	.00	15,584.35	.00	15,584.35-
025474	PHS AI 00226-12	.00	2,030.49	.00	2,030.49-
025475	PHS AI 00226-13	.00	51,662.00	.00	51,662.00-
025479	PHS GM 02168-04	.00	8,050.38	.00	8,050.38-
025480	PHS GM 02168-05	.00	41,284.00	.00	41,284.00-
025481	PHS HL 16457-01	.00	41,474.93	.00	41,474.93-
025487	PHS HD 08341-01	.00	40,813.30	.00	40,813.30-
025490	PHS HD 08952-01	.00	193.85	.00	193.85-
025491	PHS HD 08952-02	.00	12,800.00	.00	12,800.00-
025493	PHS EY 01310-01	.00	23,143.04	.00	23,143.04-
025496	PHS AH 00794-01	.00	21,025.20	.00	21,025.20-
025499	PHS MH 23968-01	.00	844.50	.00	844.50-
025508	PHS MH 26184-01	.00	1,781.49	.00	1,781.49-
025523	PHS MH 2425401	3,491.92	.00	.00	3,491.92-
025526	PHS AI 11269-01	.00	428.20	.00	428.20-
025527	PHS AI 11269-02	.00	10,673.65	.00	10,673.65-
025532	PHS AM 17708-01	.00	13,039.85	.00	13,039.85-
025535	PHS HD 08979-01	.00	3,274.86	.00	3,274.86-
025536	PHS HD 08979-02	.00	36,456.60	.00	36,456.60-
025538	PHS MH 00042-01	.00	25,319.06	.00	25,319.06-
025539	PHS MH 00042-02	.00	32,832.00	.00	32,832.00-
025541	PHS MH 13740-01	20,820.14-	.00	.00	20,820.14
025542	PHS MH 13740-02	.00	73,194.00	.00	73,194.00-
025544	PHS MH 13811-01	.00	12,402.99	.00	12,402.99-
025545	PHS MH 13811-02	.00	44,010.00	.00	44,010.00-
025547	PHS MH 22299-01	.00	30,181.14	.00	30,181.14-
025550	PHS MH 25935-01	.00	33,160.18	.00	33,160.18-
025556	PHS MH 26251-01	.00	3,880.09	.00	3,880.09-
025557	PHS MH 26251-02	.00	31,903.22	.00	31,903.22-
025559	PHS MH 57276-01	.00	7.40	.00	7.40-
025562	PHS MH 57284-01	.00	.00	.00	.00

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
025565	PHS 01-P-000054-01-0	.00	34,392.77	.00	34,392.77-
025566	PHS 01-P-000054-02-0	.00	163,895.00	.00	163,895.00-
025568	PHS 01-P-000063-01-0	.00	19,271.99	.00	19,271.99-
025571	PHS AH 00793-01	.00	31,788.30	.00	31,788.30-
025574	PHS HD 08333-01	.00	17,247.75	.00	17,247.75-
025577	PHS 44-P-05344/1-01	.00	2,829.34	.00	2,829.34-
025580	PHS GM 19763-01	.00	11,920.77	.00	11,920.77-
025585	PHS GM 21466-01	.00	26,489.56	.00	26,489.56-
025589	PHS HD 07943-01	.00	21,489.19	.00	21,489.19-
025598	PHS 01-P-000043-01-0	.00	108,639.40	.00	108,639.40-
025607	PHS AI 12482-01	.00	45,473.44	.00	45,473.44-
025610	PHS HD 08534-01	.00	18,282.20	.00	18,282.20-
025628	PHS GM 21260-01	.00	33,350.05	.00	33,350.05-
025631	PHS GM 00112-01	.00	25,000.00	.00	25,000.00-
025634	PHS GM 00129-01	.00	23,895.00	.00	23,895.00-
025640	PHS HL 17939-01	.00	13,600.00	.00	13,600.00-
025643	PHS NS 00090-01	.00	19,577.00	.00	19,577.00-
025646	PHS MH 25434-01	.00	26,071.08	.00	26,071.08-
027501	NIH 10-P-57331/1-02	.00	517.97	.00	517.97-
027505	HEW SERS 51-P-05374/1-01	.00	19,358.19	.00	19,358.19-
027506	HEW SERS 51-P-05374/1-02	.00	72,897.00	.00	72,897.00-
027550	SSA 71-3380	5,635.04-	.00	.00	5,635.04
027600	OEG 1-70-0010	313.06-	.00	.00	313.06
027603	OEG 1-70-00014-0020(509)	570.16-	.00	.00	570.16
027612	OEG 0 9 313519 3519 097	10,407.61-	.00	.00	10,407.61
027615	OEC-0-70-5059 (284)	304.78-	.00	.00	304.78
027627	OEG 0-72-1610	.00	5,008.06	.00	5,008.06-
027630	OEC 1-7-000211-0211	10,536.75-	.00	.00	10,536.75
027631	OEG 0-73-0534 (515)	.00	2,167.54	.00	2,167.54-
027632	OEG 0-73-0534-A	.00	267.48	.00	267.48-
027635	NIH NE G-00-3-0139	.00	2,575.62	.00	2,575.62-
027638	NIH NE G-00-3-0051	.00	1,374.34	.00	1,374.34-
027644	OEG 0-71-0548 (715)	15,831.00-	.00	.00	15,831.00
027653	OEG 0-73-0534-B	.00	15,316.67	.00	15,316.67-
027675	OEG 0-72-4824	107.20	.00	.00	107.20-
027696	OEG 0-71-1825-A	.00	127.10	.00	127.10-
027702	OEG 0-72-4062-D	.24-	.24	.00	.00
027711	OEG 0-71-1872-D	.00	4,967.00	.00	4,967.00-
027740	OEC 0-70-4232 (506)	7,884.49-	.00	.00	7,884.49
027743	OEG 0-72-4062-E	.00	12,619.15	.00	12,619.15-
027746	OEG 0-72-4062-F	.00	9,480.36	.00	9,480.36-
027749	OEG 0-74-3000	.00	2,354.61	.00	2,354.61-
027754	OEG-1-74-8456	.00	8,996.70	.00	8,996.70-
027765	OEG-310-75-0004-A (492)	291.50-	.00	.00	291.50
027767	OEG-0-71-1372-E	.00	4,102.26	.00	4,102.26-

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UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
027770	DEG 0-74-7356	.00	23,023.16	.00	23,023.16-
027773	DEG 0-74-8553	.00	53,423.22	.00	53,423.22-
027776	DEG 0-74-4514	.00	726.02	.00	726.02-
027779	DEG 1-74-8473	.00	20,518.50	.00	20,518.50-
027791	DEG-0-75-0008	.00	20,474.58	.00	20,474.58-
027794	DEG-0-74-0251(8421)	3,116.00-	.00	.00	3,116.00
027800	DEG-0007500420	.00	40,000.00	.00	40,000.00-
028004	DE 77-00-2221	.00	7,236.99	.00	7,236.99-
028011	SEDG-INITIAL/AMHERST	.00	647.73	.00	647.73-
028021	SEDG-CONTINUING/AMHERST	2,989.31-	2,989.31	.00	.00
028050	A E D G PROGRAM	.00	32,423.70	.00	32,423.70-
028061	SEDG/AMHERST	500,110.25	75,877.25-	.00	429,233.00-
028108	ARMY COR OF ENGR /PITTSB	4,635.29-	.00	.00	4,635.29
028113	DA-ARO-D-31-124-72-G151	2,906.20	.00	.00	2,906.20-
028115	DA ARO-D-31-124-73-G60	259.70-	.00	.00	259.70
028123	DAAG-46-72-C-0076	2,346.34-	.00	.00	2,346.34
028126	DAHC 04-74-G-0139	.06	.00	.00	.06-
028127	CORPS OF ENGR SOIL ANALY	6,127.40	.00	.00	6,127.40-
028128	DAAA 21-74-C-0511	7,946.14-	.00	.00	7,946.14
028129	DAAK 03-74-C-0230	20,050.37-	.00	.00	20,050.37
028130	DAAK 03-74-G-0003	3,639.37	.00	.00	3,639.37-
028131	DAHC 04-75-C-0020	24,792.11	.00	.00	24,792.11-
028132	DA 69-03004-P155	5,228.13	.00	.00	5,228.13-
028133	DAHC 04-75-G-0073	7,997.83	.00	.00	7,997.83-
028134	DAAK 03-75-G-0001	4,378.33	.00	.00	4,378.33-
028135	DA-NATICK LABS(NAVAR)	1,245.69	.00	.00	1,245.69-
028136	DAAG 46-75-C-0052	7,198.09-	.00	.00	7,198.09
028137	DAHC-04-75-G-0135	7,359.11	.00	.00	7,359.11-
028139	DAAG 17-75-C-0005	3,484.20-	.00	.00	3,484.20
028151	N 00014 67 A 230 0001	5,710.05-	.00	.00	5,710.05
028154	N 00014 67 A 0230 0002	1,677.79-	.00	.00	1,677.79
028158	N 00014-67-A-0230-0007	4,225.02-	.00	.00	4,225.02
028159	N 00014-67-A-0230-0009	7,428.56-	.00	.00	7,428.56
028160	N 00014-67-A-0230-0010	7,127.59-	.00	.00	7,127.59
028161	THEMIS N00014 68 A 01461	2,736.47-	.00	.00	2,736.47
028162	THEMIS N00014 68 A 01463	1,625.72-	.00	.00	1,625.72
028163	THEMIS N00014 68 A 01461A	75.95-	.00	.00	75.95
028169	THEMIS N00014 68 A 01461B	27.60-	.00	.00	27.60
028171	N 00014-68-A-0146-6A	3,839.28-	.00	.00	3,839.28
028172	N 00014-68-A-0146-6 C	141.70-	.00	.00	141.70
028173	N 00014-68-A-0146-6 D	80.60-	.00	.00	80.60
028174	N0014-67-A-0230-0011	760.70-	.00	.00	760.70
028175	N00014-75-C-0459	9,300.96-	.00	.00	9,300.96
028176	N00014-75-C-0686	2,321.80-	.00	.00	2,321.80
028205	AFOSR-71-2111	15,010.60	.00	.00	15,010.60-

SCHEDULE A 4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
028207	AFOSR 72-2170	18,959.06	.00	.00	18,959.06-
028208	AFOSR 72-2340	17,321.83	.00	.00	17,321.83-
028210	AFOSR 74-2601	13,546.26	.00	.00	13,546.26-
028212	AFOSR 75-2763	11,540.04	.00	.00	11,540.04-
028252	DCPA 01-74-C-0111	27,367.11-	.00	.00	27,367.11
028253	DCPA 01-75-C-0113	64,402.43-	.00	.00	64,402.43
028301	UNIFE PROJECT	1,351.52	.00	.00	1,351.52-
028302	AID/LA 699-ECUADOR	38,939.97-	.00	.00	38,939.97
028304	AID/TA-G-1112	33,490.37	.00	.00	33,490.37-
028305	AID-CSD-3221 (IT-22)	3,920.31-	.00	.00	3,920.31
028306	AID/518-393	19,077.28	.00	.00	19,077.28-
028461	WR B021	411.57	.00	.00	411.57-
028462	WR B023	23.47	.00	.00	23.47-
028464	WR B026	535.28	.00	.00	535.28-
028465	WR B028	1,102.88	.00	.00	1,102.88-
028466	WR B029	21,873.15	.00	.00	21,873.15-
028467	WR B033	298.42	.00	.00	298.42-
028468	WR B036	1,747.27	.00	.00	1,747.27-
028471	DI BSFW 14-16-0008-1089	1,334.82-	.00	.00	1,334.82
028472	DI 14-31-0001-9058	3,566.31	.00	.00	3,566.31-
028473	DI BSFW 14-16-0008-1120	5,290.50-	.00	.00	5,290.50
028474	DI BSFW 14-16-0005-4588	3,599.20-	.00	.00	3,599.20
028475	DI BOM G0111343	1,856.15-	.00	.00	1,856.15
028476	DI-NATL PARK SERVICE	5,942.46-	.00	.00	5,942.46
028478	DI NPS CX-00031710	8,338.44-	.00	.00	8,338.44
028479	DI NPS CX-4000-3-0072	2,265.32-	.00	.00	2,265.32
028480	DI NPS CX0001-4-0068	657.96	.00	.00	657.96-
028481	USDI FWPCA 18050	325.26-	.00	.00	325.26
028482	DI FWPCA 17070 DZS	3,655.85-	.00	.00	3,655.85
028485	DI NSP-CX-4000-4-0016	16,811.90-	.00	.00	16,811.90
028486	USDI 14-16-0008-1149	6,878.64-	.00	.00	6,878.64
028487	USDI-GS-14-08-0001-G-134	4,145.82	.00	.00	4,145.82-
028488	USDI-NPS-CX-2000-5-0017	867.98-	.00	.00	867.98
028489	USDI-NPS-CX-1600-5-0001	31,433.47-	.00	.00	31,433.47
028490	USDI-NPS-CX-2000-5-0017A	1,529.34	.00	.00	1,529.34-
028491	USDI-GS-NIEDOPODA	1,527.09-	.00	.00	1,527.09
028493	USDI-NPS-CX-1600-5-0005	2,356.62-	.00	.00	2,356.62
028494	USDI-NPS-CX-1600-5-0006	923.04-	.00	.00	923.04
028500	WR-B-038	3,895.55	.00	.00	3,895.55-
028501	WR-B-043	7,807.52	.00	.00	7,807.52-
028502	WR-B-044	3,500.65	.00	.00	3,500.65-
028503	WR-B-047	8,095.50	.00	.00	8,095.50-
028552	USDA 12-14-100-10457(81)	.06	.00	.00	.06-
028553	USDA ARS12-14-100-10903	500.00-	.00	.00	500.00
028555	USDA FORESTRY 23-00-263	4.52-	.00	.00	4.52

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
[illegible]	USDA SCS 42-00-052	1,478.94-	.00	.00	1,478.94
[illegible]	USDA FS-NE-11	546.16-	.00	.00	546.16
028562	USDA FS-FISHER STUDIES	474.45-	.00	.00	474.45
028567	USDA ERS 12-17-04-8-790X	3,042.85-	.00	.00	3,042.85
028573	USDA FS 23-00263-S13	1,600.00-	.00	.00	1,600.00
028576	USDA-FS-23-473	1,576.58-	.00	.00	1,576.58
028577	USDA-FS-23-482	1,639.17-	.00	.00	1,639.17
[illegible]	USDA-FS-NE-36	21.32-	.00	.00	21.32
028579	USDA-FS-NE-33	1,945.27-	.00	.00	1,945.27
028580	USDA-FS-01-2754	695.59	.00	.00	695.59-
028581	USDA-SOIL CONS./WHALEY	14,449.78-	.00	.00	14,449.78
028582	USDA-FS-23-568	2,408.33-	.00	.00	2,408.33
028583	USDA-12-16-1-701	3,822.96-	.00	.00	3,822.96
028585	USDA-516-15-57	728.23-	.00	.00	728.23
028660	USDC ABLE 3-37044	1,337.80-	.00	.00	1,337.80
028661	USDC NOAA-04-4-153-32	70.60	.00	.00	70.60-
028662	USDC-NBS-4-36077	4,941.20-	.00	.00	4,941.20
028663	USDC-NBS-EAGAN	4,202.79-	.00	.00	4,202.79
028702	USDL 91-25-73-09	1,544.24-	.00	.00	1,544.24
028703	USDL L-74-49	2,667.14-	.00	.00	2,667.14
028704	USDL 91-25-74-27	41.97-	.00	.00	41.97
028751	HUD-H-2312	728.70-	.00	.00	728.70
028801	MASS OMG-6	190,402.93-	.00	.00	190,402.93
028851	AEC AT (11-1) 3329	2,510.46-	.00	.00	2,510.46
028852	AEC AT (11-1) 3330	20,318.66-	.00	.00	20,318.66
028854	AEC AT (11-1) 3331	3,221.98-	.00	.00	3,221.98
028855	AEC AT (11-1)-3024	11,984.53-	.00	.00	11,984.53
028857	AT(11-1) 2545	2,697.14-	.00	.00	2,697.14
028902	NAS 5-21871	789.88-	.00	.00	789.88
028903	NGR 22 010 018	689.20	.00	.00	689.20-
028904	NGR 22 010 023	7,875.37-	.00	.00	7,875.37
028905	NGR-22 010 025	7,906.76-	.00	.00	7,906.76
028907	NGR 22 010 037	178.97	.00	.00	178.97-
028908	NGR 22-010-054	57.32	.00	.00	57.32-
028910	NASA-NGR 22-010-052	44.42	.00	.00	44.42-
028911	NASA NGL 22-010-076	4,757.88-	.00	.00	4,757.88
028913	NGR 22-010-089	564.47-	.00	.00	564.47
028914	NASA NSG T-137	2,400.54-	.00	.00	2,400.54
028958	NEH RO 7921-73-195	3,849.07	.00	.00	3,849.07-
028961	NEH-RO-20505-74-552	3,123.65	.00	.00	3,123.65-
028962	NEH FS-21039-75-103	1,723.29	.00	.00	1,723.29-
028964	NEH-FS-22264-75-169	1,383.84-	.00	.00	1,383.84
029012	EPA R-803069-01	741.89-	.00	.00	741.89
029013	EPA-T-000217-05	485.23	.00	.00	485.23-
029014	EPA-R-803146-01-0	4,972.65-	.00	.00	4,972.65

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
029151	ACTION P D 033-0783	284.10-	.00	.00	284.10
029156	ACTION 73-047-00044/3	25,659.66-	.00	.00	25,659.66
029157	ACTION 147-00044/4	13,863.99	.00	.00	13,863.99-
029159	ACTION 447-1203/5	14,653.28-	.00	.00	14,653.28
029160	JVA OFF-CAMPUS AGENCIES	4,178.64	.00	.00	4,178.64-
029162	ACTION (FEDERAL FY76)	722.71-	.00	.00	722.71
029170	ACTION 73-043-0073	9,931.17-	.00	.00	9,931.17
029201	SBA-1812-BMA-75	1,359.18-	.00	.00	1,359.18
029250	MA BD HIGHER ED/ALLEN	33.02	.00	.00	33.02-
029251	MA/PARKER RIVER ALEWIFE	5,605.23-	.00	.00	5,605.23
029256	MA MENTAL HEALTH/TUTHILL	31.91	.00	.00	31.91-
029260	BHE 73-025-011	6,450.58-	.00	.00	6,450.58
029264	MA DEPT ED DRUG EDUCAT	14,164.94-	.00	.00	14,164.94
029267	MA DIV OF MIN RESO 73-74	2,966.92	.00	.00	2,966.92-
029268	MA DEPT OF COMM AFFAIRS2	1.59	.00	.00	1.59-
029269	BHE ACAD ADM STUDIES	224.06	.00	.00	224.06-
029275	J F S I 74	1,409.19-	.00	.00	1,409.19
029278	MA DEPT YOUTH SERVS #3	84,071.70-	.00	.00	84,071.70
029279	DISTRIBUTIVE ED CONF 73	364.14	.00	.00	364.14-
029280	DISTRIB ED CURR GUIDE 73	5.00	.00	.00	5.00-
029281	PROJ DEVELOPMNT/PLANNING	67.88	.00	.00	67.88-
029282	SUMMER WKSHP/OCCUPATIONS	3.35	.00	.00	3.35-
029283	RES ANALYSIS OF WRITERS	.19	.00	.00	.19-
029285	LEADERSHIP&ADMIN DEV	1,509.93	.00	.00	1,509.93-
029286	CONT PROG IN VO-AG/D E	48.95	.00	.00	48.95-
029288	MA DEPT ED/EPDA 2374 TT	41.97	.00	.00	41.97-
029289	MA DEPT ED S-34874 (P&D)	234.82	.00	.00	234.82-
029292	MA DEPT OF ED/TT-274	2,169.81	.00	.00	2,169.81-
029293	MA DEPT OF ED/TT-174	187.18	.00	.00	187.18-
029296	MA WATER POL/WATERCR EXH	20.87	.00	.00	20.87-
029297	MA WATER POL/BOTTOM DEPS	109.67	.00	.00	109.67-
029298	MA WATER POL/PLANT INVES	45,094.93-	.00	.00	45,094.93
029299	MA WATER POL/HEAVY METAL	18,680.96-	.00	.00	18,680.96
029300	MA WATER POL/SLUDGE ANDG	23,635.94-	.00	.00	23,635.94
029301	MA DES/WK INCENTIVE PROG	433.93	.00	.00	433.93-
029310	STREPTO LAB TRUST ED/AMH	26.50-	.00	.00	26.50
029311	STREPTOCCI LAB 74-75	6,491.63-	.00	.00	6,491.63
029314	MA DEPT MH/TUTHILL #2	1,366.00-	.00	.00	1,366.00
029315	MA DEPT PUB HLTH/HOS SCH	.14	.00	.00	.14-
029316	MDC/BERGER	9,019.06-	.00	.00	9,019.06
029318	MA PUB WELFARE/OLLEY #2	703.75-	.00	.00	703.75
029320	MA DEPT ED/EPDA1675/TT	17,271.92	.00	.00	17,271.92-
029321	MA ENV AFF/LAKE/ZOBE#5	8,100.80-	.00	.00	8,100.80
029322	MA DEPT ED/CONS & HOME	7,409.98	.00	.00	7,409.98-
029323	MA DEF OF ENV/WHALEY	331.46	.00	.00	331.46-

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
029324	MA COMM AFF/TGCED/#1	1.42	.00	.00	1.42-
029325	MA COMM AFF/CCRS/MEARF	5,429.65	.00	.00	5,429.65-
029327	MA DCA / IME	14,009.76	.00	.00	14,009.76-
029329	MA ED/HOME EC CURR	7,956.51	.00	.00	7,956.51-
029330	MA EOEA/IME #6	4,273.34-	.00	.00	4,273.34
029331	MA EOEA/IME #7	5,497.63-	.00	.00	5,497.63
029332	MA ED/ [illegible] DEVELOP	4,711.48	.00	.00	4,711.48-
029333	MA ED/LEAD & ADMI. 75	32,784.41	.00	.00	32,784.41-
029334	MA ED/V [illegible] 75	12,042.34	.00	.00	12,042.34-
029336	MA ED/MIN P D URBAN 73	3,797.33-	.00	.00	3,797.33
029337	MA ED/MIN PD URBAN 74	29,385.83	.00	.00	29,385.83-
029339	MA [illegible]/ARTS RES TEAM	3,780.69	.00	.00	3,780.69-
029340	MA AGR & FIN/ECON MODEL	27,149.42-	.00	.00	27,149.42
029341	PESTICIDE REG/MA AGR	533.75	.00	.00	533.75-
029342	PESTICIDE REG/MA ENV AFF	2,966.48-	.00	.00	2,966.48
029343	PESTICIDE REG/PUB HEALTH	259.00	.00	.00	259.00-
029344	MA FISH & GAME/FOOD ST	2,341.59	.00	.00	2,341.59-
029345	MA ED/CH-2175/GREEN	12,513.28	.00	.00	12,513.28-
029346	MA ED/MA (R) 4095/DYE	333.79	.00	.00	333.79-
029347	MA ED/MA (R) 4096/DYE	2,400.00	.00	.00	2,400.00-
029348	MA REHAB COM/SURVIVAL AK	2,628.13	.00	.00	2,628.13-
029350	MA COMM&DEVELOP #2	1,007.76	.00	.00	1,007.76-
029351	MA ED/CABAN #1	760.11	.00	.00	760.11-
029355	MA EOEA/IME #7A	3,199.59-	.00	.00	3,199.59
029357	CONFERENCE ACCT/DPW/IGS	564.50	.00	.00	564.50-
029358	MA ED/C & H EOEA	40,000.00	.00	.00	40,000.00-
029359	MA DPW/17959	5,046.19-	.00	.00	5,046.19
029360	MA MDC/IME #2	11,594.46-	.00	.00	11,594.46
029363	CONFERENCE ACCT(S-29354)	3,495.00	.00	.00	3,495.00-
029500	JR COLLEGE DISTR 508	4,104.79-	.00	.00	4,104.79
029501	CAPITOL REG ED COUNCIL 2	.04	.00	.00	.04-
029502	CAPITOL REG ED COUNCIL 3	13.69	.00	.00	13.69-
029504	CAPITOL REG ED COUNCIL 5	850.00	.00	.00	850.00-
029506	NY/JOHNSON	1,420.49-	.00	.00	1,420.49
029507	CAP REG ED COUNCIL #6	851.53-	.00	.00	851.53
029508	MENTAL HEALTH/CAREW	2,409.51	.00	.00	2,409.51-
029700	COP-NY CITY	39,110.85-	.00	.00	39,110.85
029701	COP-SPRINGFIELD	191.30-	.00	.00	191.30
029702	COP-WORCESTER	14,032.30	.00	.00	14,032.30-
029704	MARION/SHELLFISH	.67	.00	.00	.67-
029709	BUREAU FOR ED EVAL & RES	2,342.96	.00	.00	2,342.96-
029712	SCH ADMIN DISTR 22	1,933.12	.00	.00	1,933.12-
029713	SUFFIELD BD OF ED	19,322.46-	.00	.00	19,322.46
029714	WORCESTER/ROSSMAN 3	7,309.41-	.00	.00	7,309.41
029717	IPSWICH/ZAHRADNIK	4,545.71-	.00	.00	4,545.71

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
029719	COOPERATIVE SPEC SER CTR	250.08	.00	.00	250.08-
029720	LANDSCAPE ARCHITECTURE	650.00	.00	.00	650.00-
029721	HOLYOKE BILINGUAL TEACH	3,821.86	.00	.00	3,821.86-
029723	NEW HAVEN TEACHER PGM	2,077.26-	.00	.00	2,077.26
029724	NEW HAVEN(STUDENT FEES)	5,287.90	.00	.00	5,287.90-
029726	MINT SABBATICALS	4,259.00	.00	.00	4,259.00-
029800	WORLD HEALTH ORGANIZE	180.82-	.00	.00	180.82
029801	NATO-LENZ	646.76	.00	.00	646.76-
029802	UNESCO/EVANS	1,112.54	.00	.00	1,112.54-
032500	NSF GU-3448 INSTIT GRANT	.00	3,364.74	.00	3,364.74-
032502	NSF GU-3448 GLASS SHOP	1,196.64-	.00	.00	1,196.64
032503	NSF GU-3448 CHEMICAL LAB	448.87-	.00	.00	448.87
032700	PHS RR 07048-10	.00	50,841.00	.00	50,841.00-
033000	CWS-FED FY75(POST MATCH)	178.41	727.91	.00	906.32-
033001	CWS-FED FY75(03 MATCH)	98,579.02-	.00	.00	98,579.02
033012	CWS-DEPT OF AGRICULTURE	72.00-	.00	.00	72.00
033013	CWS-TOWN OF AMHERST	256.50-	.00	.00	256.50
033014	CWS-AMHERST TOWN PLANNER	194.40-	.00	.00	194.40
033015	CWS-TOWN OF ARLINGTON	80.00-	.00	.00	80.00
033016	CWS-BENNETT PUB LIBRARY	172.00-	.00	.00	172.00
033019	CWS-BOSTON YMCA	548.98-	.00	.00	548.98
033024	CWS-CITY OF CHELSEA	80.00-	.00	.00	80.00
033031	CWS-HOLYOKE SOC SECURITY	566.25-	.00	.00	566.25
033032	CWS-HOLYOKE YMCA	58.40-	.00	.00	58.40
033037	CWS-MASSACHUSETTS INTERN	1,419.10-	.00	.00	1,419.10
033039	CWS-MASS LEGAL SERVICES	1,628.50-	.00	.00	1,628.50
033045	CWS-PITTSFIELD URBAN COR	213.50-	.00	.00	213.50
033046	CWS-PROJECT SUMMERTIME	160.00-	.00	.00	160.00
033050	CWS-REVERE CITY HALL	237.60-	.00	.00	237.60
033055	CWS-STATE TRANSP COMM	20.00	.00	.00	20.00-
033056	CWS-SWAMPSCOTT PUB LIBR	60.00-	.00	.00	60.00
033058	CWS-CITY OF WALTHAM	112.20-	.00	.00	112.20
033062	CWS-WORCESTER FRIEND HSE	590.91-	.00	.00	590.91
033064	CWS-BOSTON DPW	156.00-	.00	.00	156.00
033065	CWS-CAMBRIDGE YMCA	364.00-	.00	.00	364.00
033066	CWS-CARE ABOUT NOW	120.00-	.00	.00	120.00
033068	CWS-NEW ENGLAND CONSORT	39.00-	.00	.00	39.00
033073	CWS-SUBURBAN EXP STATION	211.20-	.00	.00	211.20
033076	CWS-WORCESTER DPW	165.00-	.00	.00	165.00
033077	CWS-WORCESTER PUBLIC SCH	246.40-	.00	.00	246.40
033079	CWS-MONSON STATE HOSP	224.00-	.00	.00	224.00
033080	CWS WESTBORO ST HOSPITAL	523.20-	.00	.00	523.20
033091	CWS-EAST MT RPE SCHOOL	56.70-	.00	.00	56.70
033092	CWS-HAMPSHIRE CORRECTION	86.50-	.00	.00	86.50
033093	CWS-WESTERN MA LEGAL SER	108.90-	.00	.00	108.90

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FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
033094	CWS-J U R HOUSE	183.60-	.00	.00	183.60
033095	CWS-AMHERST FOOD COOP	96.00-	.00	.00	96.00
033096	CWS-BELCHERTOWN SCHOOL	1,542.50-	.00	.00	1,542.50
033097	CWS-FULLER MENTAL HEALTH	65.40-	.00	.00	65.40
033098	CWS-BROOKLINE YOUTH SERV	31.50-	.00	.00	31.50
033099	CWS-CAMBRIDGE DAY CARE	56.00-	.00	.00	56.00
033100	CWS-ECONOMICS DEPT	168.00-	.00	.00	168.00
033101	CWS-DORCHESTER HOUSE	15.30-	.00	.00	15.30
033102	CWS-EVERETT CITY HALL	66.50-	.00	.00	66.50
033103	CWS-EVERETT REC CENTER	32.00-	.00	.00	32.00
033104	CWS-FAIRFIELD CTY LEGAL	33.75-	.00	.00	33.75
033106	CWS-FLORENCE V A HOSP	70.50-	.00	.00	70.50
033107	CWS-GEORGETOWN SCH DEPT	80.00-	.00	.00	80.00
033108	CWS-GLOUSTER PARKS & REC	40.00-	.00	.00	40.00
033109	CWS-NEIGHBORHOOD CTR	40.00-	.00	.00	40.00
033111	CWS-HARVARD SCH PUB HLTH	72.00-	.00	.00	72.00
033112	CWS-TOWN OF HAVERHILL	168.00-	.00	.00	168.00
033113	CWS-HOLBROOK	20.00-	.00	.00	20.00
033115	CWS-LT GOVERNORS OFFICE	96.00-	.00	.00	96.00
033116	CWS-MAN & ENVIRONMENT	100.00-	.00	.00	100.00
033117	CWS-MARLBORO REC DEPT	40.00-	.00	.00	40.00
033118	CWS-MA WELFARE OFFICES	303.75-	.00	.00	303.75
033119	CWS-NEEDHAM WALKER SCH	60.00-	.00	.00	60.00
033121	CWS-N Y CITY URBAN CORE	63.00-	.00	.00	63.00
033125	CWS-NORTHAMPTON LAW CTR	40.00-	.00	.00	40.00
033126	CWS-PIONEER VALLEY ASSOC	70.00-	.00	.00	70.00
033127	CWS-PLYMOUTH COUNTY 4H	60.00-	.00	.00	60.00
033129	CWS-SHEILD C.S.I.A.	56.00-	.00	.00	56.00
033130	CWS-STURBRIDGE VILLAGE	40.00-	.00	.00	40.00
033132	CWS-UNIV OF BRIDGEPORT	24.25-	.00	.00	24.25
033133	CWS-WESTWOOD HALE RES	60.00-	.00	.00	60.00
033134	CWS-WORC FDN EXP BIOLOGY	48.00-	.00	.00	48.00
033139	CWS-TOWN OF SHREWSBURY	28.00-	.00	.00	28.00
033140	CWS-BON SECOURS HOSPITAL	28.00-	.00	.00	28.00
034025	BJ-LIBRARY FY74	9.84	.00	.00	9.84-
034026	BANKHEAD-JONES AMH FY75	143,506.00	.00	.00	143,506.00-
034133	LAND GRANT AMHERST FY74	10,392.72	.00	.00	10,392.72-
034134	LAND GRANT AMHERST FY75	7,300.00	.00	.00	7,300.00-
034328	VCIP ADMIN AMH FY74	661.75	.00	.00	661.75-
034329	VCIP INSTRUCTION AMH 74	939.48	.00	.00	939.48-
034332	VCIP/ADM/AMH FY75	.00	2,907.36	.00	2,907.36-
034333	VCIP/INSTR/AMH FY75	.00	3,440.37	.00	3,440.37-
034502	SMITH-LEVER CONTROL FY75	916,838.79-	5,280.00	.00	911,558.79
034596	SL URBAN CONTROL FY75	73,351.27-	.00	.00	73,351.27
034691	RURAL DEV CONTROL FY75	7,550.92-	.00	.00	7,550.92

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FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
034736	NUT ED CONTROL FY75	640,235.85-	.00	.00	640,235.85
034784	TTL V RURAL DEV CONTR 75	844.75	.00	.00	844.75-
034965	AID HOUSING S-LECTION 74	9,131.19	.00	.00	9,131.19-
034966	HOUSING SELECT CONTROL 75	768.00-	.00	.00	768.00
034982	AMA RES & MARK CONTR 75	53,402.00-	.00	.00	53,402.00
035026	AMA 12-05-300-122	5,014.06	.00	.00	5,014.06-
035038	AMA 12-05-300-140	441.98	.00	.00	441.98-
035049	AMA 12-05-300-231 CONTR	3,796.27	.00	.00	3,796.27-
035050	AMA 231 HOME ECON EXT	1,213.72-	.00	.00	1,213.72
035051	AMA 231 NUTRITION & FOOD	63.84-	.00	.00	63.84
035082	HATCH CONTROL FY71	373.47	.00	.00	373.47-
035083	HATCH CONTROL FY72	249.11	.00	.00	249.11-
035084	HATCH CONTROL FY73	1,917.89	.00	.00	1,917.89-
035085	HATCH CONTROL FY74	36,007.91	.00	.00	36,007.91-
035086	HATCH CONTROL FY75	623,503.35-	.00	.00	623,503.35
035169	MCINTIRE-STENNIS CONTR75	26,267.22	.00	.00	26,267.22-
035222	REGIONAL RESEARCH CONT74	2,104.26	.00	.00	2,104.26-
035223	REGIONAL RESEARCH CONT75	244,191.53-	.00	.00	244,191.53
035274	TTL VR RURAL DEV CONT 74	6,750.12	.00	.00	6,750.12-
035275	TTL VR RURAL DEV CONT 75	2,884.67	.00	.00	2,884.67
035502	WR CONTROL FY72	19.97	.00	.00	19.97-
035520	WR-DIRECTORS ACCOUNT	286.49	.00	.00	286.49-
035521	WR ADMINISTRATION FY72	37.77	.00	.00	37.77-
035522	WR ADMINISTRATION FY73	.55	.00	.00	.55-
035523	WR ADMINISTRATION FY74	480.87	.00	.00	480.87-
035524	WR ADMINISTRATION FY75	4,602.33	.00	.00	4,602.33-
035541	WR 32 FY72	.99	.00	.00	.99-
035547	WR 41 FY73	33.32	.00	.00	33.32-
035548	WR 41 FY74	197.55	.00	.00	197.55-
035549	WR 42 FY72	504.95	.00	.00	504.95-
035550	WR 42 FY73	4.31	.00	.00	4.31-
035551	WR 42 FY74	150.00	.00	.00	150.00-
035552	WR 42 FY75	3,500.00	.00	.00	3,500.00-
035556	WR 43 FY74	416.14	.00	.00	416.14-
035559	WR 45 FY73	28.03	.00	.00	28.03-
035560	WR 45 FY74	309.89	.00	.00	309.89-
035565	WR 53 FY73	56.88	.00	.00	56.88-
035566	WR 53 FY74	813.74	.00	.00	813.74-
035567	WR 54 FY73	3.59	.00	.00	3.59-
035568	WR 54 FY74	150.24	.00	.00	150.24-
035569	WR 54 FY75	150.10	.00	.00	150.10-
035573	WR 57 FY73	1,380.31	.00	.00	1,380.31-
035574	WR 57 FY74	55.16	.00	.00	55.16-
035575	WR 57 FY75	178.99	.00	.00	178.99-
035578	WR 58 FY73	909.21	.00	.00	909.21-

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FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
[illegible]	WR 60 FY74	2.86-	.00	.00	2.86
[illegible]534	WR 61 FY74	891.45	.00	.00	891.45-
[illegible]535	WR 62 FY74	51.12	.00	.00	51.12-
[illegible]536	WR 63 FY74	59.70	.00	.00	59.70-
[illegible]537	WR 63 FY75	633.62	.00	.00	633.62-
[illegible]539	WR 64 FY73	104.36	.00	.00	104.36-
[illegible]540	WR 65 FY74	251.75	.00	.00	251.75-
[illegible]541	WR 65 FY75	25.25	.00	.00	25.25-
[illegible]543	WR 66 FY74	123.63	.00	.00	123.63-
035594	WR 67 FY74	292.25	.00	.00	292.25-
035595	WR 67 FY75	295.25	.00	.00	295.25-
035596	WR 68 FY74	2,321.01	.00	.00	2,321.01-
035597	WR 69 FY74	917.98	.00	.00	917.98-
035598	WR 70 FY74	3,699.70	.00	.00	3,699.70-
035601	WR 71 FY75	565.86	.00	.00	565.86-
035603	WR 72 FY75	452.04	.00	.00	452.04-
035605	WR 73 FY75	200.03	.00	.00	200.03-
035607	WR 74 FY75	377.96	.00	.00	377.96-
035609	WR 75 FY75	2,790.40	.00	.00	2,790.40-
035611	WR 76 FY75	1,334.61	.00	.00	1,334.61-
035613	WR 77 FY75	860.48	.00	.00	860.48-
035615	WR 78 FY75	859.68	.00	.00	859.68-
035618	WR 79 FY75	2,700.26	.00	.00	2,700.26-
035621	WR 80 FY75	5,098.95	.00	.00	5,098.95-
035624	WR 81 FY75	1,387.72	.00	.00	1,387.72-
036230	FORD FOUND FELLOW/BOURKE	1,184.36	.00	.00	1,184.36-
036520	FORD FOUNDATION FELLOWSH	2,782.06	.00	.00	2,782.06-
036550	LINK FOUNDATION FELLOW	.06	.00	.00	.06-
036555	MORH FAMILY HEALTH FELLO	6,263.18-	.00	.00	6,263.18
036570	OLIN CORP CHARITABLE TR2	111.43	.00	.00	111.43-
036620	PHS HL 02423-01 FELLOW	.00	1,451.72	.00	1,451.72-
036660	PHS-AI-52353-01 FELLOW	.00	20.42	.00	20.42-
036665	PHS MH 44282-01	506.58	.00	.00	506.58-
036670	PHS-MH-55202-01X1	.00	782.25	.00	782.25-
036750	PHS-AI-52353-02 FELLOW	.00	277.35	.00	277.35-
036781	PHS-AI-55278-02	.00	462.64	.00	462.64-
036800	PHS-GM-55942-01 FELLOW	.00	14.95	.00	14.95-
036815	PHS-MH-53455-01 FELLOW	.00	2,371.22	.00	2,371.22-
036820	DAAK-03-74-G-0001 ARMY	1,326.25	.00	.00	1,326.25-
036840	NSF FELLOWSHIP	.04	.00	.00	.04-
036850	NSF-GZ-3553 FELLOWSHIP	.00	1,176.99	.00	1,176.99-
036870	NDEA TITLE 4 GRAD FELLOW	.00	51,025.12	.00	51,025.12-
036905	OEG-0-74-2586 FELLOW	.00	8,549.23	.00	8,549.23-
036965	MING HSIN SCHOLARSHIP	1,414.78	.00	.00	1,414.78-
036980	NURSING SCHOLARSHIP	.00	3,090.25	.00	3,090.25-

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FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
036982	NURSING SCHOLARSHIP 75	.00	12,089.00	.00	12,089.00-
036984	GRAD NURSING SCHOL 75	.00	5,384.00	.00	5,384.00-
037000	DONALD P ALLAN SCHOL	734.66	.00	.00	734.66-
037010	ALPHA SIGMA PHI SCHOL	1,811.82	.00	.00	1,811.82-
037020	ALVORD DAIRY SCHOL	299.16	.00	.00	299.16-
037030	OSCAR G ANDERSON MEMO	388.25	.00	.00	388.25-
037050	ASCENSION FARM SCHOL	8,281.01	.00	.00	8,281.01-
037060	D K BANGS	1,517.95	.00	.00	1,517.95-
037070	GEORGE H BARBER	2,591.24	.00	.00	2,591.24-
037071	GEORGE H BARBER MHR	59.93	.00	.00	59.93-
037090	OSWALD BEHREND AWARD	61.50	.00	.00	61.50-
037100	SEYMOUR BARDWSKY	1,296.06	.00	.00	1,296.06-
037120	JOHN & NANCY BUTTERWORTH	647.41	.00	.00	647.41-
037130	BUTTRICK SCHOL FUND	1,839.72	.00	.00	1,839.72-
037140	THEODORE C CALDWELL	60.35	.00	.00	60.35-
037145	RAYMOND CHAMBERLIN	333.99	.00	.00	333.99-
037150	HAROLD W CARY PRIZE FUND	18.69	.00	.00	18.69-
037180	CLASS OF 1882 MSC SCHOL	316.44	.00	.00	316.44-
037190	GEO & EDITH COODING	35,541.33	.00	.00	35,541.33-
037200	GUY CHESTER CRAMPTON	1,096.27	.00	.00	1,096.27-
037210	F G CRANE	6,507.60	.00	.00	6,507.60-
037220	JOHN C CUTTER	725.49	.00	.00	725.49-
037230	STEPHEN DAVIS SCHOL	1,019.64	.00	.00	1,019.64-
037240	DISTINGUISHED VISITORS	25,690.73	.00	.00	25,690.73-
037250	F W ELDRIDGE	394.94	.00	.00	394.94-
037270	GEORGE L FARLEY	3,646.15	.00	.00	3,646.15-
037280	R C FOLEY SCHOL	658.66	.00	.00	658.66-
037290	HARRY FOLSON HOO HOO CLB	586.73	.00	.00	586.73-
037300	J D W FRENCH CONTROL	1,133.79	.00	.00	1,133.79-
037302	J D W FRENCH-JUDGING-50%	73.81	.00	.00	73.81-
037304	J D W FRENCH-SCHOLAR-20%	1,689.35	.00	.00	1,689.35-
037306	J D W FRENCH-FOREST -20%	214.56	.00	.00	214.56-
037308	J D W FRENCH-MISCELL-10%	1,147.10	.00	.00	1,147.10-
037310	KATHRYN E FURCOLO	553.91	.00	.00	553.91-
037320	GASSETT SCHOLARSHIP	409.49	.00	.00	409.49-
037330	CHARLE A GLEASON	948.21	.00	.00	948.21-
037340	GRINNEL PRIZE FUND	171.12	.00	.00	171.12-
037380	PHILIP HASBROUCK	1,149.42	.00	.00	1,149.42-
037400	HILLS FUND-CONTROL	1,490.69	.00	.00	1,490.69-
037402	HILLS FUND-BOTANY	190.06-	.00	.00	190.06
037404	HILLS FUND-LANDSCAPE ARC	2,010.60	.00	.00	2,010.60-
037406	HILLS FUND PLANT & SOIL	91.07	.00	.00	91.07-
037420	CLIFTON JOHNSON	400.89	.00	.00	400.89-
037430	HELEN KNOWLTON	961.10	.00	.00	961.10-
037440	HOWARD M LEROW MEM	526.83	.00	.00	526.83-

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FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
037450	LIBRARY	1,595.92	.00	.00	1,595.92-
037480	ALBERT P MADEIRA	732.23	.00	.00	732.23-
037490	MARY A MAHER SCHOL	838.74	.00	.00	838.74-
037500	ELIZ L MCNAMARA	39.03	.00	.00	39.03-
037510	ORFANA MERRIAM EDUCATION	264.61	.00	.00	264.61-
037520	J JF M METAXAMPS FUND	222.75	.00	.00	222.75-
037530	HELEN MITCHELL	159.88	.00	.00	159.88-
037533	JEFF MORGAN MEMORIAL SCH	176.84	.00	.00	176.84-
037540	PORTER L NEWTON	1,663.00	.00	.00	1,663.00-
037550	J CLARK OSTERHOUT	118.86	.00	.00	118.86-
037560	BETSY PINKERTON	1,163.74	.00	.00	1,163.74-
037570	CHARLE A PETERS	994.55	.00	.00	994.55-
037580	CHARLES S PLUMB FUND	2,311.47	.00	.00	2,311.47-
037590	FRANK H PLUMB	2,278.13	.00	.00	2,278.13-
037600	ROBERT POMEROY	748.42	.00	.00	748.42-
037610	A L POND	246.69	.00	.00	246.69-
037620	WILLIAM PROCTOR	2,141.03	.00	.00	2,141.03-
037625	FRANK PRENTICE RAND	136.97	.00	.00	136.97-
037650	V A RICE SCHOL	180.39	.00	.00	180.39-
037660	MARY ROBINSON	756.65	.00	.00	756.65-
037680	ILENE SHARON SAVAL	152.75	.00	.00	152.75-
037700	FRANK P SHAW	66.51	.00	.00	66.51-
037710	PHILIP SHEINFIELD	1,527.02	.00	.00	1,527.02-
037730	BETTY STEINBUGLER	70.39	.00	.00	70.39-
037740	STOCKBRIDGE SCHOOL ALUMN	878.19	.00	.00	878.19-
037745	HARVEY SWADOS	114.87	.00	.00	114.87-
037760	RUTH J TOTMAN MEMORIAL	420.56	.00	.00	420.56-
037770	FRANK M WEST FORESTRY	1,178.37	.00	.00	1,178.37-
037790	WHITTING STREET	510.61	.00	.00	510.61-
037800	HELEN A WHITTIER	362.84	.00	.00	362.84-
038710	ALLOT 7414-1002 UMR/CONT	106,373.71	.00	.00	106,373.71-
	* FUND GROUP TOTAL *	1,133,958.70-	6,724,531.64	.00	5,590,572.94-

LOAN FUNDS

040000	ALUMNI FUND FOR VETERANS	1,927.85	6,581.22	.00	8,509.07-
040080	D K BANGS LOAN FUND	6,919.06	393.12	.00	7,312.18-
040120	J W BARTLETT LOAN FUND	1,000.00	.00	.00	1,000.00-
040160	ADDISON H CLARK LOANS	12,092.14	8,310.46	.00	20,402.60-
040200	CLASS OF 1905 LOAN FUND	3,139.34	65.00	.00	3,204.34-
040210	CLASS OF 1911 LOAN FUND	2,702.78	.00	.00	2,702.78-
040240	CLASS OF 1969 LOAN FUND	.00	1,000.00	.00	1,000.00-
040260	JOHN GRIGGS MEMORIAL	5.00	1,140.00	.00	1,145.00-

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FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
040230	VINCENT GOLDTHWAIT LOANS	4,934.45	11,499.72	.00	16,434.17-
040320	GRADUATE & FOREIGN STUDE	5,442.50	6,107.50	.00	11,550.00-
040400	WALTER H HARRISON LOAN	10,775.55	.00	.00	10,775.55-
040440	MURRAY D LINCOLN LOAN	363.38	.00	.00	363.38-
040480	MASS AGRIC CLUB LOAN	.00	622.52	.00	622.52-
040520	MASS ASSEMBLY LOAN FUND	142.53	6,080.04	.00	6,222.57-
040560	ELIZABETH L MCNAMARA	561.55	.00	.00	561.55-
040600	MCNAMARA HOUSE LOANS	7,054.85	.00	.00	7,054.85-
040640	TIMOTHY MURPHY LOANS	450.00	.00	.00	450.00-
040680	NEW ENGLAND FREEMENS	757.39	.00	.00	757.39-
040720	NEW ENG SOCIETY OF N Y	.00	996.00	.00	996.00-
040760	BEN B SELIGMAN MEMORIAL	413.00	350.00	.00	763.00-
040800	SIEVERS MEMORIAL LOAN	2,064.16	800.00	.00	2,864.16-
040840	HENRY F STAPLES MEMORIAL	17,013.26	22,300.15	.00	39,313.41-
047100	UNDRGRAD NURSING LOANS	75,820.90	107,875.01	260,702.20-	16,006.29
047200	GRADUATE NURSING LOANS	8,481.01	2,150.00	10,631.61-	.00
048200	NDL AMHERST	20,588.43	4,329,306.75	4,652,589.73-	303,694.55
	* FUND GROUP TOTAL *	183,649.73	4,564,577.49	4,923,923.54-	175,696.32
PLANT FUNDS					
070110	ALLOT 7490-8661 POWER PL	3,071.00	.00	.00	3,071.00-
070120	ALLOT 7490-8694 LAND ACQ	2,050.72	.00	.00	2,050.72-
070130	ALLOT 7490-8723 GREENHOU	6,726.67	.00	.00	6,726.67-
071500	RHTE REFURBISHING	4,122.00	.00	.00	4,122.00-
071501	RHTE STUDENT DAMAGE	2,541.69	.00	.00	2,541.69-
071502	MARINE STATION RENOVATE	70.46	.00	.00	70.46-
071503	VEHICLE REPLACEMENT FUND	143,000.00	.00	.00	143,000.00-
072000	UMBA 11 REPAIR & REPLACE	354,000.00	.00	.00	354,000.00-
072001	UMBA STUDENT DAMAGE	8,912.67	.00	.00	8,912.67-
072523	ALLOT 7400-8751 LIB BOOK	302,804.37	.00	.00	302,804.37-
072540	ALLOT 7490-8699 UTILITYS	2,486.81	.00	.00	2,486.81-
072550	ALLOT 7490-8711 LIB BOOK	.58	.00	.00	.58-
075510	LAND-AMHERST CAMPUS	.00	4,480,096.00	.00	4,480,096.00-
076510	BUILDINGS-AMHERST CAMPUS	.00	112,081,620.00	.00	112,081,620.00-
077510	IMPROVEMENTS-AMHERST CAM	.00	21,387,537.16	.00	21,387,537.16-
078510	EQUIPMENT-AMHERST CAMPUS	.00	35,949,393.00	.00	35,949,393.00-
	* FUND GROUP TOTAL *	329,796.97	173,898,646.16	.00	174,228,433.13-
AGENCY FUNDS					
050100	STUDENT HEALTH INS/AMH	7,813.75	.00	.00	7,813.75-

SCHEDULE A-4

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - AMHERST CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
090300	STUDENT HEALTH FEE/WOR	14,766.00	.00	.00	14,766.00-
090500	MASSPIRG-AMHERST FEE	952.93	.00	.00	952.93-
090700	EQUIPMENT SHORT AE/ROTC	228.58	.00	.00	228.58-
090900	SPECIAL MILITARY FUND	1,029.24	.00	.00	1,029.24-
091100	STUDENT DEPOSIT CONTROL	312,280.36	.00	.00	312,280.36-
092050	BIERHOST FUND	1.41	.00	.00	1.41-
092100	C C E B S AGENCY	118.52	.00	.00	118.52-
092150	DIGITAL EQUIPMENT FUND	3,779.05	.00	.00	3,779.05-
092200	DOMESTIC ACTION PROGRAM	18,061.66	.00	.00	18,061.66-
092250	EDUCATIONAL FILM & TAPES	67.48	.00	.00	67.48-
092350	FOUR-H ACTIVITIES FUND	1,106.82	.00	.00	1,106.82-
092400	IMS FUND/COMPUTER ENGINP	16.73	.00	.00	16.73-
092450	MASS EDUCATIONAL FILMS	5,356.54	.00	.00	5,356.54-
092470	MASS BASED HUMANITIES	326.13	.00	.00	326.13-
092550	COLLEGE PUBLICATIONS FND	558.95	.00	.00	558.95-
092600	USDA WILDLIFE SERVICES	5,156.32	.00	.00	5,156.32-
092650	S&E LABORATORIES FUND	279.83	.00	.00	279.83-
092700	UMASS/AMH CHAPTER AAUP	18.09	.00	.00	18.09-
092750	VICTORIAN PERIODICALS	20.82	.00	.00	20.82-
092800	WEST MASS BROADCASTING C	57,648.31	.00	.00	57,648.31-
092810	WMBC/1972 CPB AWARD	8,552.83-	.00	.00	8,552.83
093000	BEOG-FY75 (AMHERST)	546,194.22-	.00	.00	546,194.22
	* FUND GROUP TOTAL *	125,159.53-	.00	.00	125,159.53

SCHEDULE A-5

COMPARATIVE STATEMENT OF FUNDS FORWARDED TO STATE TREASURER

ON ACCOUNT OF INCOME FROM FEES, SALES AND SERVICES

AMHERST CAMPUS

	ACCOUNT NUMBER	1973		1974		1975	
INSTRUCTION							
TUITION - ACADEMIC YEAR	1350-40-01-40	$5,247,267.91		$6,263,054.04		$6,732,536.98	
TUITION - SUMMER SCHOOL	1350-40-12-40	250,633.91		157,922.24		144,524.20	
SALES - PRODUCTIVE ENTERPRISE	1350 64-71-40	94,215.19		103,872.57		101,714.67	
OTHER STUDENT RECEIPTS	1350-69-01-40	20,612.75		18,492.50		17,682.07	
OTHER SALES	1350-64-99-40	28,187.80		25,866.98		26,032.74	
REIMBURSEMENT FOR SERVICES-FEDERAL GOVERNMENT		-0-		6,828.00		-0-	
			$5,640,917.86		$6,576,036.33		$7,022,490.66
EXPERIMENT STATION							
SALES	1350-64-31-40	$ 6,182.64		$ 7,461.25		$ 8,561.74	
WALTHAM FIELD STATION		14.00		12.00		-0-	
			$ 6,196.64		$ 7,473.25		$ 8,561.74
CONTROL SERVICES							
POULTRY DISEASE LAW	1350-40-62-40	$ 10,349.50		$ 10,084.65		$ 7,378.95	
DAIRY GLASSWARE	1350-40-63-40	358.95		397.65		85.60	
SEED LAW	1350-40-65-40	566.25		350.25		440.75	
M.G. CONTROL TESTING	1350-40-60-40	14,781.60		14,708.95		10,696.95	
			$ 26,056.30		$ 25,541.50		$ 18,602.25
OPERATION OF PLANT							
STUDENTS' ROOM RENT	1350-63-81-40	$ 413,084.00		$ 275,610.00		$ 275,160.00	
EMPLOYEES' RENT	1350-63-56-40	3,972.21		3,121.79		2,415.82	
OTHER RENT	1350-63-99-40	12,418.64		7,936.50		5,780.11	
MISCELLANEOUS	1350-69-81-40	3,123.62		2,492.05		17,668.28	
REIMBURSEMENT FOR SERVICES-BOARDING HALLS	1350-62-56-40	245,000.00		245,000.00		245,000.00	
			$ 677,598.47		$ 534,160.34		$ 546,024.21
MISCELLANEOUS							
OTHER	1350-69-99-40	$ 21,215.47		$ 14,834.85		$ 10,045.39	
REIMBURSEMENT FOR SERVICES-OTHER THAN FEDERAL GOVERNMENT-RESEARCH PROJECTS	1350-62-21-36	61,484.67		61,488.30		75,679.93	
			82,700.14		76,323.15		85,725.32
			$6,433,469.41		$7,219,534.57		$7,681,404.18

SCHEDULE A-6

STATE APPROPRIATIONS

COMPARATIVE STATEMENT OF SUBSIDIARY ACCOUNTS

SUBSIDIARY ACCOUNTS		1973	1974	1975
GENERAL MAINTENANCE				
7410-0000-01	SALARIES, PERMANENT POSITIONS	$45,155,392.00	$48,255,650.00[1]	$52,409,904.00
7410-0000-02	SALARIES, OTHER	826,701.00	900,802.00	1,010,827.00
7410-0000-03	SERVICES, NON-EMPLOYEES	4,700,000.00	5,010,000.00	5,423,719.00
7410-0000-04	FOOD FOR PERSONS	1,500.00	1,350.00	3,098.00
7410-0000-05	CLOTHING	14,700.00	15,000.00	12,387.00
7410-0000-06	HOUSEKEEPING SUPPLIES & EXPENSES	107,530.00	139,000.00	134,043.00
7410-0000-07	LABORATORY, MEDICAL & GENERAL CARE	11,000.00	10,500.00	10,920.00
7410-0000-08	HEAT & OTHER PLANT OPERATIONS	2,612,800.00	3,351,050.00	5,540,000.00
7410-0000-09	FARM AND GROUNDS	98,350.00	156,000.00	99,218.00
7410-0000-10	TRAVEL & AUTOMOTIVE EXPENSES	199,500.00	275,000.00	289,444.00
7410-0000-11	ADVERTISING & PRINTING	161,500.00	181,300.00	229,540.00
7410-0000-12	REPAIRS, ALTERATIONS & ADDITIONS	800,717.00	1,041,000.00	1,192,286.00
7410-0000-13	SPECIAL SUPPLIES & EXPENSES	1,110,555.00	1,174,500.00	1,332,049.00
7410-0000-14	OFFICE & ADMINISTRATIVE EXPENSES	732,825.00	855,000.00	1,007,495.00
7410-0000-15	EQUIPMENT	221,757.00	553,000.00	500,410.00
7410-0000-16	RENTALS	1,082,346.00	1,155,000.00	1,253,960.00
	TOTAL	$57,837,173.00	$63,074,152.00	$70,449,300.00
OTHER MAINTENANCE				
7410-9731-00	FEDERAL GRANTS	$ 54.82	$ -0-	$ -0-
7414-1107-00	TECHNICAL SERVICES	15,254.32	-0-	-0-
7415-9738-00	TECHNICAL SERVICES	28.20	-0-	-0-
7414-1002-00	UMASS RESEARCH	157,521.40	164,383.99	174,202.70
2670-2441-03	INLAND FISH & GAME	6,375.00	8,500.00	13,750.00
2670-2341-03	FISHERIES & COOPERATIVE RESEARCH	7,500.00	10,000.00	13,500.00
	TOTAL	$ 186,733.74	$ 182,883.99	$ 201,452.70
CAPITAL OUTLAY				
7490-8661-00	POWER PLANT	$ -0-	$ -0-	$ 10,436.00
7490-8694-00	LAND	-0-	-0-	2,050.72
7490-8699-00	UTILITIES	-0-	-0-	4,422.51
7490-8711-00	LIBRARY BOOKS	-0-	-0-	197,188.39
7490-8723-00	GREENHOUSE	-0-	-0-	6,726.67
	TOTAL	$ -0-	$ -0-	$ 220,824.29
	GRAND TOTAL	$58,023,906.74	$63,257,035.99	$70,871,576.99

[1] $1,533,643.34 for Retroactive Payroll (12/29/73 to 6/29/74) paid from State Reserve, not recorded as expense of University.

SCHEDULE A-7

STATE GENERAL MAINTENANCE APPROPRIATIONS

SUMMARY OF EXPENDITURES BY FUNCTIONAL DIVISION & SUBSIDIARY ACCOUNTS

AMHERST CAMPUS

ACCOUNT NUMBER & NAME		APPROPRIATION	EXPENDITURES	ENCUMBRANCES	REVERTED TO STATE TREASURER	BALANCE OF APPROPRIATIONS JUNE 30, 1975
GENERAL MAINTENANCE						
7410-0000-01	SALARIES, PERMANENT POSITIONS	$52,409,904.00	$52,403,676.49	$ -0-	$ 6,227.51	$ -0-
7410-0000-02	SALARIES, OTHER	1,010,827.00	988,467.83	-0-	22,359.17	-0-
7410-0000-03	SERVICES, NON-EMPLOYEES	5,423,719.00	5,315,330.89	-0-	108,388.11	-0-
7410-0000-04	FOOD FOR PERSONS	3,098.00	3,098.00	-0-	-0-	-0-
7410-0000-05	CLOTHING	12,387.00	11,789.82	-0-	597.18	-0-
7410-0000-06	HOUSEKEEPING SUPPLIES & EXPENSES	134,043.00	133,883.51	-0-	159.49	-0-
7410-0000-07	LABORATORY, MEDICAL & GENERAL CARE	10,920.00	10,910.80	-0-	9.20	-0-
7410-0000-08	HEAT & OTHER PLANT OPERATIONS	5,540,000.00	5,539,648.05	-0-	351.95	-0-
7410-0000-09	FARM & GROUNDS	99,218.00	99,056.88	-0-	161.12	-0-
7410-0000-10	TRAVEL & AUTOMOTIVE EXPENSES	289,444.00	288,652.07	-0-	791.93	-0-
7410-0000-11	ADVERTISING & PRINTING	229,540.00	216,959.45	-0-	12,580.55	-0-
7410-0000-12	REPAIRS, ALTERATIONS & ADDITIONS	1,192,286.00	1,188,558.68	-0-	3,727.32	-0-
7410-0000-13	SPECIAL SUPPLIES & EXPENSES	1,332,049.00	1,329,932.20	-0-	2,116.80	-0-
7410-0000-14	OFFICE & ADMINISTRATIVE EXPENSES	1,007,495.00	1,002,406.82	-0-	5,088.18	-0-
7410-0000-15	EQUIPMENT	500,410.00	490,885.87	-0-	9,524.13	-0-
7410-0000-16	RENTALS	1,253,960.00	1,242,241.21	-0-	11,718.79	-0-
	TOTAL	$70,449,300.00	$70,265,498.57	$ -0-	$183,801.43	$ -0-
CAPITAL OUTLAY						
7490-8661-00	POWER PLANT	$ 10,436.00	$ 9,236.00	$ -0-	$ 1,200.00	$ -0-
7490-8694-00	LAND	2,050.72	2,050.72	-0-	-0-	-0-
7490-8699-00	UTILITIES	4,422.51	4,422.51	-0-	-0-	-0-
7490-8711-00	LIBRARY BOOKS	197,188.39	197,188.39	-0-	-0-	-0-
7490-8723-00	GREENHOUSE	6,726.67	-0-	-0-	-0-	6,726.67
	TOTAL	$ 220,824.29	$ 212,897.62	$ -0-	$ 1,200.00	$ 6,726.67
OTHER MAINTENANCE						
7414-1002-00	UMASS RESEARCH	$ 174,202.70	$ 67,828.99	$2,521.03	$ -0-	$105,852.68
2670-2341-13	FISHERIES & COOPERATIVE RESEARCH	13,500.00	13,500.00	-0-	-0-	-0-
2670-2441-13	INLAND FISH & GAME	13,750.00	13,750.00	-0-	-0-	-0-
	TOTAL	$ 201,452.70	$ 95,078.99	$2,521.03	$ -0-	$105,852.68
GRAND TOTAL AMHERST		$70,871,576.99	$70,573,475.18	$2,521.03	$185,001.43	$110,579.35

SCHEDULE B-6

UNIVERSITY OF MASSACHUSETTS - AMHERST CAMPUS

ENDOWMENT INCOME ON INVESTMENTS

POOLED FUNDS	ACCOUNT CODE	BALANCE JULY 1, 1974	RECEIPTS	TRANSFERS	EXPENDITURES	BALANCE JUNE 30, 1975
STUDENT AID, SCHOLARSHIPS & LOANS						
DONALD P. ALLAN SCHOL	0-37000	$ 666.82	$ 367.84	$ -0-	$ 300.00	$ 734.66
ALPHA SIGMA PHI SCHOL	0-37010	1,436.25	375.57	-0-	-0-	1,811.82
ALVORD DAIRY SCHOL	0-37020	427.19	221.97	-0-	350.00	299.16
ASCENSION FARM SCHOL	0-37050	8,927.95	6,353.06	-0-	7,000.00	8,281.01
[illegible] BANGS	0-37060	1,209.33	308.62	-0-	-0-	1,517.95
GEORGE H. BARBER MHR	0-37071	23.67	36.26	-0-	-0-	59.93
SEYMOUR BAROWSKY	0-37100	1,031.50	264.56	-0-	-0-	1,296.06
[illegible] & NANCY BUTTERWORTH	0-37120	668.30	529.11	-0-	550.00	647.41
BUTTRICK SCHOL	0-37130	1,910.61	529.11	-0-	600.00	1,839.72
RAYMOND CHAMBERLIN	0-37145	-0-	333.99	-0-	-0-	333.99
CLASS OF 1882	0-37180	264.54	103.80	(51.90)	-0-	316.44
GEORGE & EDITH H. CODDING	0-37190	26,567.52	20,573.81	-0-	11,600.00	35,541.33
F.S. CRANE	0-37210	5,154.65	1,352.95	-0-	-0-	6,507.60
STEPHEN DAVIS	0-37230	2,804.57	1,015.07	-0-	2,800.00	1,019.64
E.W. ELDRIDGE, JR. MEMORIAL FD	0-37250	311.08	83.86	-0-	-0-	394.94
GEORGE L. FARLEY	0-37270	3,531.59	264.56	-0-	150.00	3,646.15
R.C. FOLEY	0-37280	385.99	272.67	-0-	-0-	658.66
HARRY L. FOLSON HOO HOO CLUB	0-37290	572.69	586.73	(22.69)	550.00	586.73
KATHRYN F. FURCOLO	0-37310	523.80	555.91	(523.80)	-0-	555.91
GASSETT SCHOL	0-37320	332.41	77.08	-0-	-0-	409.49
CHARLES A. GLEASON	0-37330	751.37	196.84	-0-	-0-	948.21
M.R. POMEROY HAMLIN	0-37350	-0-	1,774.78	(1,774.78)	-0-	-0-
WALTER H. HARRISON LOAN FD	0-37370	-0-	628.97	(628.97)	-0-	-0-
PHILIP B. HASBROUCK	0-37380	759.01	810.41	-0-	400.00	1,149.12
MRS. CLIFTON JOHNSON	0-37420	221.06	179.83	-0-	-0-	400.89
HELEN E. KNOWLTON	0-37430	817.44	793.66	-0-	650.00	961.10
HOWARD M. LEBOW MEMORIAL	0-37440	253.75	526.83	(3.75)	250.00	526.83
ALBERT P. MADEIRA	0-37480	691.80	732.23	(691.80)	-0-	732.23
MARY A. MAHER	0-37490	914.60	374.14	-0-	450.00	838.74
OREANA MERRIAM	0-37510	179.02	85.59	-0-	-0-	264.61
U OF M METAWAMPE FD	0-37520	165.03	57.72	-0-	-0-	222.75
HELEN MITCHELL	0-37530	(204.90)	364.78	-0-	-0-	159.88
JEFF MORGAN	0-37535	-0-	276.84	-0-	100.00	176.84
PORTER L. NEWTON	0-37540	1,545.13	1,280.37	-0-	1,162.50	1,663.00
J. CLARK OSTERHOUT	0-37550	99.90	18.96	-0-	-0-	118.86
BETSY PINKERTON	0-37560	925.19	238.55	-0-	-0-	1,163.74
CHARLES S. PLUMB	0-37580	2,183.13	256.68	(128.34)	-0-	2,311.47
FRANK H. PLUMB	0-37590	2,418.79	709.34	-0-	850.00	2,278.13
FRANK PRENTICE RAND	0-37625	-0-	136.97	-0-	-0-	136.97

SCHEDULE B-6

UNIVERSITY OF MASSACHUSETTS - AMHERST CAMPUS

ENDOWMENT INCOME ON INVESTMENTS

POOLED FUNDS	ACCOUNT CODE	BALANCE JULY 1, 1974	RECEIPTS	TRANSFERS	EXPENDITURES	BALANCE JUNE 30, 1975
STUDENT AID, SCHOLARSHIPS & LOANS						
V.A. RICE	0-37650	$ 184.24	$ 146.15	$ -0-	$ 150.00	$ 180.39
MARY ROBINSON	0-37660	596.15	160.50	-0-	-0-	756.65
ILENE SHARON SAVAL	0-37680	143.79	152.75	(143.79)	-0-	152.75
FRANK R. SHAW	0-37700	99.00	66.51	(99.00)	-0-	66.51
PHILIP SHEINFIELD	0-37710	1,210.85	316.17	-0-	-0-	1,527.02
HENRY FRANKLIN STAPLES MEMORIAL	0-37720	-0-	2,747.21	(2,747.21)	-0-	-0-
STOCKBRIDGE SCHOOL ALUMNI	0-37740	882.35	108.13	-0-	112.29	878.19
RUTH J. TOTMAN MEMORIAL	0-37760	369.83	50.73	-0-	-0-	420.56
FRANK M. WEST FORESTRY	0-37770	1,201.99	971.38	-0-	995.00	1,178.37
WHITING STREET	0-37790	401.58	109.03	-0-	-0-	510.61
HELEN WHITTIER	0-37800	324.89	177.95	-0-	140.00	362.84
TOTAL STUDENT AID, SCHOL & LOANS		$73,865.45	$48,654.53	$(6,816.03)	$29,159.79	$86,544.16
PRIZES						
HAROLD W. CARY PRIZE FD	0-37150	$ 44.36	$ 43.69	$ (44.36)	$ 25.00	$ 18.69
GRINNELL PRIZE	0-37340	163.49	7.63	-0-	-0-	171.12
ELIZABETH L. MCNAMARA	0-37500	-0-	52.03	-0-	13.00	39.03
A.L. POND	0-37610	188.85	57.84	-0-	-0-	246.69
BETTY STEINBUGLER	0-37730	60.87	9.52	-0-	-0-	70.39
HARVEY SWADOS	0-37745	-0-	114.87	-0-	-0-	114.87
TOTAL PRIZES		$ 457.57	$ 285.58	$ (44.36)	$ 38.00	$ 660.79
BOOKS						
OSCAR G. ANDERSON	0-37030	$ 456.42	$ 56.83	$ -0-	$ 125.00	$ 388.25
JOHN C. CUTTER	0-37220	666.53	58.96	-0-	-0-	725.49
LIBRARY	0-37450	2,189.03	586.27	-0-	1,179.38	1,595.92
ROBERT POMEROY	0-37600	665.05	83.37	-0-	-0-	748.42
TOTAL BOOKS		$ 3,977.03	$ 785.43	$ -0-	$ 1,304.38	$ 3,458.08

SCHEDULE B-6

UNIVERSITY OF MASSACHUSETTS - AMHERST CAMPUS

ENDOWMENT INCOME ON INVESTMENTS

FUND NAME	ACCOUNT CODE	BALANCE JULY 1, 1974	RECEIPTS	TRANSFERS	EXPENDITURES	BALANCE JUNE 30, 1975
MISCELLANEOUS PURPOSES						
GEORGE H. BARBER	0-37070	$ 2,320.38	$ 270.86	$ -0-	$ -0-	$ 2,591.24
OSWALD BLUEBEND AWARD	0-37090	-0-	61.50	-0-	0-	61.50
THEODORE T. CALDWELL	0-37140	60.43	60.35	(60.43)	-0-	60.35
GY CHESTER CRAMPTON	0-37200	960.78	135.49	-0-	-0-	1,096.27
DISTINGUISHED VISITORS	0-37240	21,965.03	3,725.70	-0-	-0-	25,690.73
J.D. FRENCH CONTROL	0-37300	562.93	570.86	-0-	-0-	1,133.79
J.D. FRENCH JUDGING	0-37302	286.21	-0-	-0-	212.40	73.81
J.D. FRENCH SCHOLARSHIPS	0-37304	1,689.35	-0-	-0-	-0-	1,689.35
J.D. FRENCH FORESTRY	0-37306	339.56	-0-	-0-	125.00	214.56
J.D. FRENCH MISCELLANEOUS	0-37308	1,147.10	-0-	-0-	-0-	1,147.10
GENERAL ENDOWMENT	0-37334	-0-	-0-	-0-	-0-	-0-
HILLS FUND CONTROL	0-37400	670.41	820.28	-0-	-0-	1,490.69
HILLS FUND BOTANY	0-37402	209.25	-0-	-0-	399.31	(190.06)
HILLS FUND LANDSCAPE ARCH	0-37404	2,010.60	-0-	-0-	-0-	2,010.60
HILLS FUND PLANT & SOIL	0-37406	558.70	-0-	-0-	467.63	91.07
CHARLES A. PETERS	0-37570	933.95	60.60	-0-	-0-	994.55
WILLIAM PROCTOR FELLOWSHIP	0-37620	2,036.98	104.05	-0-	-0-	2,141.03
TOTAL MISCELLANEOUS PURPOSES		$ 35,751.66	$ 5,809.69	$ (60.43)	$ 1,204.34	$ 40,296.58
ENDOWMENT INCOME ON INVESTMENTS		$114,051.71	$55,535.23	$(6,920.82)	$31,706.51	$130,959.61

SCHEDULE C-1

STATEMENT OF STUDENT LOAN FUNDS - AMHERST

TRUST ACCOUNTS	BALANCE JULY 1, 1974	ADJUSTMENTS & INTEREST	LOAN TRANSACTIONS REPAID	LOANED	CANCELLED	BALANCE, JUNE 30, 1975 NOTES	CASH	TOTAL
DANFORTH K. BANGS	$ 7,309.39	$ 2.79	$ .55	$ -0-	$ 3.33	$ 393.12	$ 6,919.06	$ 7,312.18
J. W. BARTLETT	1,000.00	-0-	-0-	-0-	-0-	-0-	1,000.00	1,000.00
ADDISON H. CLARK	20,247.41	155.19	56,671.90	48,568.92	-0-	8,310.46	12,092.14	20,402.60
CLASS OF 1905	3,204.34	-0-	-0-	-0-	-0-	65.00	3,139.34	3,204.34
CLASS OF 1911	-0-	2,702.78	-0-	-0-	-0-	-0-	2,702.78	2,702.78
CLASS OF 1969	1,000.00	-0-	-0-	-0-	-0-	1,000.00	-0-	1,000.00
JOHN GEIGER MEMORIAL	1,145.00	-0-	-0-	-0-	-0-	1,140.00	5.00	1,145.00
VINCENT GOLDTHWAITH	17,632.76	(1,198.59)	35,787.10	31,665.75	104.16	11,499.72	4,934.45	16,434.17
GRADUATE AND FOREIGN STUDENTS	12,025.00	(475.00)	24,144.50	22,490.00	550.00	6,107.50	5,442.50	11,550.00
WALTER HARRISON	10,146.58	628.97	-0-	-0-	-0-	-0-	10,775.55	10,775.55
MURRAY D. LINCOLN	363.38	-0-	-0-	-0-	-0-	-0-	363.38	363.38
MASSACHUSETTS AGRICULTURE CLUB	622.52	-0-	-0-	-0-	-0-	622.52	-0-	622.52
MASSACHUSETTS ASSEMBLY	6,700.48	(477.91)	483.06	-0-	40.99	6,080.04	142.53	6,222.57
ELIZABETH L. McNAMARA	561.55	-0-	-0-	-0-	-0-	-0-	561.55	561.55
McNAMARA HOUSE	6,052.90	1,001.95	1,034.75	775.00	-0-	-0-	7,054.85	7,054.85
TIMOTHY MURPHY (EMERGENCY)	450.00	-0-	-0-	-0-	-0-	-0-	450.00	450.00
NEW ENGLAND SOCIETY OF NEW YORK	996.00	-0-	-0-	-0-	-0-	996.00	-0-	996.00
NEW ENGLAND FEEDMAN'S ASSOC.	757.39	-0-	-0-	-0-	-0-	-0-	757.39	757.39
BEN. B. SELIGMAN	763.00	-0-	-0-	100.00	-0-	350.00	413.00	763.00
SIEVERS MEMORIAL	2,741.58	122.58	-0-	400.00	-0-	800.00	2,064.16	2,864.16
HENRY F. STAPLES	33,631.97	5,681.44	66,264.99	62,965.18	166.03	22,300.15	17,013.26	39,313.41
VETERANS	8,245.17	263.90	21,376.22	21,163.75	8.33	6,581.22	1,927.85	8,509.07
TOTAL TRUST FUNDS	$ 135,596.42	$ 8,408.10	$205,763.07	$ 188,128.60	$ 872.84	$ 66,245.73	$ 77,758.79	$ 144,004.52
FEDERAL FUNDS								
N.D.S. LOANS	$3,725,974.61	$622,920.57	$308,387.36	$ 941,797.91	$16,333.15	$4,328,306.75	$ 20,588.43	$4,348,895.18
NURSING - UNDERGRADUATE	217,698.55	26,997.36	6,160.63	23,475.00	5,382.05	167,875.01	76,820.90	244,695.91
NURSING - GRADUATE	5,957.77	4,673.84	-0-	1,500.00	-0-	2,150.00	8,481.61	10,631.61
TOTAL FEDERAL FUNDS	$3,949,630.93	$654,591.77	$314,547.99	$ 966,772.91	$21,715.20	$4,498,331.76	$105,890.94	$4,604,222.70
GRAND TOTAL	$4,085,227.35	$662,999.87	$520,311.06	$1,154,901.51	$22,588.04	$4,564,577.49	$183,649.73	$4,748,227.22

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
First Project Dormitories (Brett and Gorman)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$118,141.97
Receipts		
Revenue Account:		
Fees	$367,501.54	
Less:		
Refunds to Students	10,662.15	356,839.39
Interest		10,076.43
		$485,057.79
Disbursements		
Revenue Account:		
To U. of M. Building Authority		$144,814.00
Maintenance & Operating Account:		
Liabilities	$ 870.22	
Salaries	86,439.98	
Repairs, Replacements, etc.	14,065.12	
Utilities	36,176.35	137,551.67
Balance - June 30, 1975		
Maintenance & Operating Account		202,692.12
		$485,057.79

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Second Project Orchard Hill Dormitories
(Dickinson, Field, Grayson and Webster)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 472,504.96
Receipts		
Revenue Account:		
Fees	$866,140.31	
Less:		
Refund to Students	13,156.90	852,983.41
Interest		25,782.41
		$1,351,270.78
Disbursements		
Revenue Account:		
To U. of M. Building Authority		$ 299,609.53
Maintenance & Operating Account:		
Liabilities	$ 9,774.88	
Salaries	293,795.80	
Repairs, Replacements, etc.	168,068.30	
Utilities	115,070.08	586,709.06
Balance - June 30, 1975		
Maintenance & Operating Account		464,952.19
		$1,351,270.78

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Third Project - Franklin Dining Commons
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Receipts

Revenue Account	$129,447.26

Disbursements

Revenue Account:	
To U. of M. Building Authority	$129,447.26

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Fourth Project Southwest Dormitories (Coolidge, Kennedy, James Emerson, Thoreau and Melville) and Alumni Stadium
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 176,414.15
Receipts		
Revenue Account:		
Fees	$1,246,265.44	
Less:		
Refunds to Students	17,073.80	$1,229,191.64
Interest		13,359.30
Transfer from Athletic Clearing Account		80,000.00
		$1,498,965.09
Disbursements		
Revenue Account:		
To U. of M. Building Authority	$597,744.88	
Advance	167,000.00	$ 764,744.88
Maintenance & Operating Account:		
Liabilities	$ 18,153.28	
Salaries	358,895.01	
Repairs, Replacements, etc.	64,808.39	
Utilities	199,023.69	640,880.37
Balance - June 30, 1975		
Maintenance & Operating Account		93,339.84
		$1,498,965.09

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Fifth Project - Hampshire Dining Commons
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Receipts

Revenue Account	$158,388.69

Disbursements

Revenue Account:	
To U. of M. Building Authority	$158,388.69

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Sixth Project Southwest Dormitories
(John Q. Adams, John Adams and Washington)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 54,768.82
Receipts		
Revenue Account:		
Fees	$1,081,346.38	
Less:		
Refunds to Students	17,544.70	1,063,801.68
Interest		8,734.90
		$1,127,305.40
Disbursements		
Revenue Account:		
To U. of M. Building Authority	$470,282.88	
Advance	25,000.00	$ 495,282.88
Maintenance & Operating Account:		
Liabilities	$ 9,564.20	
Salaries	338,501.71	
Repairs, Replacements, etc.	55,510.55	
Utilities	166,785.31	570,361.77
Balance - June 30, 1975		
Maintenance & Operating Account		61,660.75
		$1,127,305.40

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Seventh Project Hampden Dining Commons
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Receipts

Revenue Account	$161,123.62

Disbursements

Revenue Account:	
To U. of M. Building Authority	$161,123.62

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Eighth Project Southwest Dormitories
(Crampton, Mackimmie, Patterson and Prince)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 79,097.83
Receipts		
Revenue Account:		
Fees	$672,791.39	
Less:		
Refunds to Students	9,134.20	663,657.19
Interest		7,077.94
Advance		25,000.00
		$774,832.96
Disbursements		
Revenue Account:		
To U. of M. Building Authority		$388,415.03
Maintenance & Operating Account:		
Liabilities	$ 11,687.96	
Salaries	206,402.97	
Repairs, Replacements, etc.	33,671.61	
Utilities	98,647.36	350,409.90
Balance - June 30, 1975		
Maintenance & Operating Account		36,008.03
		$774,832.96

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Ninth Project - Berkshire Dining Commons
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Receipts

Revenue Account	$161,574.86

Disbursements

Revenue Account:	
To U. of M. Building Authority	$161,574.86

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Tenth Project Southwest Dormitories
(Cance, Moore, Pierpont)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 35,321.79
Receipts		
Revenue Account:		
Fees	$525,402.02	
Less:		
Refunds to Students	13,305.98	512,096.04
Interest		5,236.05
Advance		67,000.00
		$619,653.88
Disbursements		
Revenue Account:		
To U. of M. Building Authority		$316,585.11
Maintenance & Operating Account:		
Liabilities	$ 2,257.47	
Salaries	137,075.05	
Repairs, Replacements, etc.	24,135.26	
Utilities	108,379.69	271,847.47
Balance - June 30, 1975		
Maintenance & Operating Account		31,221.30
		$619,653.88

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Eleventh Project
(Murray D. Lincoln Campus Center)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

	Hotel	Garage	Student Fees	
Balance - July 1, 1974				
Revenue Account	$252,673.63	$(19,650.79)	$ 22,263.95	
Trust Fund O & M Account	(26,940.93)	12,059.23	(810,226.09)	
Campus Center Petty Cash	-0-	-0-	26,800.00	
Reserve for Repair & Replacement	26,000.00	-0-	210,000.00	
	$251,732.70	$ (7,591.56)	$ (551,162.14)	$(307,021.00)
	Receipts			
Revenue Account:				
Fees & Revenue	$588,089.63	$168,522.26	$1,842,371.05	
Less:				
Refunds	-0-	29.50	20,081.85	
	588,089.63	168,492.76	1,822,289.20	
Interest	-0-	-0-	59,853.66	
Transfer from Trust Fund Interest	-0-	50,000.00	-0-	
Transfer from University Store	-0-	-0-	500,000.00	
	$588,089.63	$218,492.76	$2,382,142.86	$3,188,725.25
Total Funds Available				$2,881,704.25
	Disbursements			
Revenue Account:				
To U. of M. Building Authority	$ -0-	$247,017.96	$1,053,076.55	
O & M Account	422,722.88	42,512.78	1,189,181.91	
	$422,722.88	$289,530.74	$2,242,258.46	$2,954,512.08
Balance - June 30, 1975				
O & M Account	$376,699.45	$(78,729.54)	$ (656,277.74)	
Campus Center Petty Cash	1,400.00	100.00	35,000.00	
Reserve for Repair & Replacement	39,000.00	-0-	210,000.00	
	$417,099.45	$(78,629.54)	$(411,277.74)	$ (72,807.83)

Note: Figures reported on cash basis.

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Twelfth Project - North East Dorms
(Brown, Cashin, McNamara)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 41,361,18
Receipts		
Revenue Account:		
Fees	$960,544.21	
Less:		
Refunds to Students	14,553.75	945,990.46
Interest		7,401.99
Advance		100,000.00
		$1,094,753.63
Disbursements		
Revenue Account:		
To U. of M. Building Authority		$701,050.19
Maintenance & Operating Account:		
Liabilities	$ 7,483.27	
Salaries	215,430.31	
Repairs, Replacements, etc.	33,304.29	
Utilities	102,693.97	358,911.84
Balance - June 30, 1975		
Maintenance & Operating Account		34,791.60
		$1,094,753.63

SCHEDULE D-1

University of Massachusetts
University of Massachusetts Building Authority
Thirteenth Project
(North Village Married Student Housing)
Financial Statement
For the Period July 1, 1974 to June 30, 1975

Balance - July 1, 1974		
Maintenance & Operating Account		$ 43,088.38
Receipts		
Revenue Account:		
Fees	$444,754.69	
Less:		
Refunds to Students	735.48	444,019.21
Interest		4,238.31
Advance		55,000.00
		$546,345.90
Disbursements		
Revenue Account:		
To U. of M. Building Authority		$350,255.51
Maintenance & Operating Account:		
Liabilities	$ 720.69	
Salaires	38,979.56	
Repairs, Replacements, etc.	17,791.74	
Utilities	94,304.34	151,796.33
Balance - June 30, 1975		
Maintenance & Operating Account		44,294.06
		$546,345.90

SCHEDULE E-1

UNIVERSITY OF MASSACHUSETTS
ATHLETIC TRUST FUND
STATEMENT OF RECEIPTS, DISBURSEMENTS AND BALANCES

BALANCE - JULY 1, 1974			$ 44,908.30
RECEIPTS:			
STUDENT FEES	$566,628.59		
OTHER RECEIPTS	30,776.44		
		$597,405.03	
LESS:			
REFUND OF STUDENT FEES	$ 9,237.55		
TRANSFER TO U. M. BLDG. AUTHORITY PROJECT #4 (STADIUM)	80,000.00		
		89,237.55	
NET RECEIPTS			508,167.48
TOTAL AVAILABLE			$553,075.78
DISBURSEMENTS:			
SALARIES		$169,595.41	
SUPPLIES		316,658.09	
EQUIPMENT		14,469.55	
MARCHING BAND		5,000.00	
PRIOR YEAR LIABILITY		2,512.75	
TOTAL DISBURSEMENTS			508,235.80
BALANCE - JUNE 30, 1975			$ 44,839.98

SCHEDULE E-1

UNIVERSITY OF MASSACHUSETTS
ATHLETIC RESERVE ACCOUNT
STATEMENT OF RECEIPTS, DISBURSEMENTS AND BALANCES

BALANCE - JULY 1, 1974		$ 27,049.49
BALANCE - JUNE 30, 1975		$ 27,049.49

ATHLETIC RESERVE ACCOUNT - SPECIAL

BALANCE - JULY 1, 1974		$164,991.97
BALANCE - JUNE 30, 1975		$164,991.97

GEORGE H. BARBER SCHOLARSHIP

BALANCE - JULY 1, 1974		$ 43,116.86
RECEIPTS:		
INCOME FROM SALES, ADMISSION & DONATIONS	$125,106.99	
TRUST FUND INTEREST	37,500.00	
		162,606.99
FUNDS AVAILABLE		$205,723.85
DISBURSEMENTS:		
SCHOLARSHIPS		194,331.65
BALANCE - JUNE 30, 1975		$ 11,392.20

SCHEDULE E-2

UNIVERSITY OF MASSACHUSETTS
BOARDING HALL TRUST FUND
STATEMENT OF RECEIPTS, DISBURSEMENTS AND BALANCES

BALANCE - JULY 1, 1974			$ 32.66
RECEIPTS			
STUDENT FEES	$6,050,968.83		
OTHER INCOME	1,139,897.74		
		$7,190,866.57	
LESS:			
STUDENT REFUNDS	$ 310,036.20		
OTHER REFUNDS	4,373.25		
UNIVERSITY OF MASSACHUSETTS BUILDING AUTHORITY PROJECT THREE	129,447.26		
UNIVERSITY OF MASSACHUSETTS BUILDING AUTHORITY PROJECT FIVE	158,388.69		
UNIVERSITY OF MASSACHUSETTS BUILDING AUTHORITY PROJECT SEVEN	161,123.62		
UNIVERSITY OF MASSACHUSETTS BUILDING AUTHORITY PROJECT NINE	161,574.86		
RETURN OF ADVANCE	259,000.00		
		$1,183,943.88	
TOTAL RECEIPTS			$6,006,922.69
			$6,006,955.35
DISBURSEMENTS:			
SALARIES AND WAGES		$2,493,697.65	
SUPPLIES AND EXPENSES		2,693,260.42	
DEBT SERVICE		245,000.00	
EQUIPMENT		16,042.73	
INTEREST ON LOANS		2,162.83	
TRANSFER PINBALL REVENUE TO RSO		11,714.22	
LIABILITIES PRIOR YEARS		183,903.54	
TOTAL DISBURSEMENTS			$5,645,781.39
BALANCE - JUNE 30, 1975			$ 361,173.96

SCHEDULE E-3

RECOGNIZED STUDENT ORGANIZATIONS

STATEMENT OF RECEIPTS, DISBURSEMENTS AND BALANCES
YEAR ENDED JUNE 30, 1975

BALANCE JULY 1, 1974				
AMHERST SAVINGS BANK			$ 113,679.93	
FIRST NATIONAL BANK OF AMHERST			86,106.18	
TOTAL				$ 199,786.11
RECEIPTS:				
AMHERST FEES (NET)			$1,085,883.15	
TRANSFERS			95,838.39	
CASH RECEIPTS		$1,051,607.26		
ADD: IN-TRANSIT ITEMS JUNE 30, 1974		10,291.68		
LESS: IN-TRANSIT ITEMS JUNE 30, 1975		(1,274.63)		
			1,060,624.31	
				2,242,345.85
ADD: IN-TRANSIT INTEREST PAYMENT JUNE 30, 1975				555.47 (1)
INTERACTIVITY RECEIPTS				3,039,644.53
TOTAL				$ 5,482,331.96
DISBURSEMENTS:				
CASH DISBURSEMENTS			$2,129,624.34	
LESS: IN-TRANSIT CANCELLED CHECKS JUNE 30, 1974			(290.00)	
ADD: IN-TRANSIT CANCELLED CHECKS JUNE 30, 1975			426.01	
				$ 2,129,760.35
INTERACTIVITY DISBURSEMENTS				3,039,644.53
BALANCE, JUNE 30, 1975				
AMHERST SAVINGS BANK			$ 120,504.05	
FIRST NATIONAL BANK OF AMHERST			191,867.56	
				312,371.61 (2)
ADD: IN-TRANSIT INTEREST PAYMENT JUNE 30, 1975				555.47 (1)
TOTAL				$ 5,482,331.96

(1) THE TRANSFER OF RSO INTEREST FOR THE MONTH OF SEPTEMBER, 1974, WAS NEVER MADE TO THE RSO ACCOUNT AND THEREFORE WAS NEITHER REFLECTED ON RSO BOOKS NOR IN THE TREASURER'S OFFICE CONTROL FIGURES FOR THE RSO ACCOUNT AS OF JUNE 30, 1975.

(2) THE BALANCE OF THE RSO ACCOUNTS AS OF JUNE 30, 1975, IS $314,072.25. THE VARIANCE WITH THE TREASURER'S OFFICE IS DUE TO THE ABOVE-REFERENCED IN-TRANSIT RECEIPTS--DEPOSIT SLIPS 2891, 2892, 8948, 8998, 9006, 9007, 9008, 9009, 9010--TOTALLING $1,274.63, AND DUE TO THE ABOVE-REFERENCED IN-TRANSIT CANCELLED CHECKS--TOTALLING $426.01.

SCHEDULE E-4

STUDENT HEALTH SERVICE

STATEMENT OF RECEIPTS, DISBURSEMENTS AND BALANCES

BALANCE, JULY 1, 1974			$ 301,187.61
RECEIPTS:			
STUDENT FEES	$ 2,050,724.90		
OTHER RECEIPTS	398,589.14		
FROM STUDENT HEALTH RESERVE PERMANENT	2,374.00		
		$ 2,451,688.04	
LESS:			
REFUND OF STUDENT FEES	$ 31,392.55		
REFUNDS OTHER	612.20		
TRANSFER TO ADVISORY COMMITTEE	5,000.00		
		37,004.75	
NET RECEIPTS			2,414,683.29
FUNDS AVAILABLE			$ 2,715,870.90
DISBURSEMENTS:			
SALARIES & WAGES		1,828,058.95	
SUPPLIES & EXPENSES		356,914.44	
EQUIPMENT		5,456.14	
LIABILITIES PRIOR YEAR		66,352.01	
TOTAL DISBURSEMENTS			2,256,781.54
BALANCE, JUNE 30, 1975			$ 459,089.36

SCHEDULE F-1

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER - UNIVERSITY STORE
BALANCE SHEET
AS OF MAY 31, 1975

ASSETS

CURRENT ASSETS:		
CASH IN BANK	$(154,994,15)	
CASH ON HAND	12,000.00	
PETTY CASH	1,000.00	
CASH IN TRANSIT	31,170.13	
ACCOUNTS RECEIVABLE	64,454.12	
ACCOUNTS RECEIVABLE - BOOK VENDORS	337,582.18	
ACCOUNTS RECEIVABLE - SUPPLY VENDORS	35,892.22	
ACCOUNTS RECEIVABLE - MISCELLANEOUS	810.75	
INVENTORY - BOOKS	482,769.14	
INVENTORY - SUPPLIES	367,213.66	
PREPAID EXPENSES	1,178.74	
TOTAL CURRENT ASSETS		$1,179,076.79
FIXED ASSETS:		
OFFICE FURNITURE AND FIXTURES	$ 26,864.88	
MACHINERY AND EQUIPMENT	24,826.15	
AUTOMOBILES AND TRUCKS	1,974.00	
BUILDING CAPITAL OUTLAY	6,660.00	
TOTAL FIXED ASSETS		60,325.03
PLANT FUNDS:		
RENEWAL & REPLACEMENTS - CASH		66,000.00
TOTAL ASSETS		$1,305,401.82

LIABILITIES & CAPITAL

CURRENT LIABILITIES:		
ACCOUNTS PAYABLE	$166,582.75	
ACCRUED PAYROLL	6,123.48	
ACCRUED TAXES - MASS SALES TAX	2,439.24	
TOTAL CURRENT LIABILITIES		$ 175,145.47
PLANT FUNDS:		
RENEWAL & REPLACEMENT FUND BALANCES		66,000.00[a]
CAPITAL:		
RETAINED EARNINGS:		
BALANCE JUNE 1, 1974	$1,308,953.47	
NET LOSS FOR PERIOD	(244,697.12)	
ADJUSTMENTS	-0-	
ADJUSTED RETAINED EARNINGS MAY 31, 1975		$1,064,256.35
TOTAL LIABILITIES AND CAPITAL		$1,305,401.82

[a] ITEMS RECORDED AS DEPRECIATION PRIOR TO FISCAL YEAR 1974 ARE NOT FUNDED.

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-2

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER - UNIVERSITY STORE
INCOME STATEMENT
FOR THE PERIOD ENDED MAY 31, 1975

SALES		
BOOKS	$1,955,242.85	
SUPPLIES	1,151,830.06	
TOTAL SALES		$3,107,072.91
COST OF GOODS SOLD		
BEGINNING INVENTORY	$ 793,350.69	
PURCHASES	2,985,638.16	
FREIGHT IN	42,843.38	
	$3,821,832.23	
LESS: PURCHASE RETURNS & ALLOWANCES	562,404.30	
	$3,259,427.93	
LESS: PURCHASE DISCOUNTS	8,210.03	
	$3,251,217.90	
LESS: ENDING INVENTORY	849,982.80	
TOTAL COST OF GOODS SOLD		2,401,235.10
GROSS MARGIN ON SALES		$ 705,837.81
OPERATING EXPENSES		
PAYROLL - PERMANENT EMPLOYEES	$ 253,077.56	
PAYROLL - STUDENT HOURLY	65,432.04	
PAYROLL - NON-STUDENT HOURLY	36,769.92	
CLOTHING	392.94	
HOUSEKEEPING SUPPLIES & EXPENSES	80.58	
TRAVEL AND AUTOMOTIVE EXPENSES	1,124.40	
ADVERTISING & PRINTING	13,372.72	
MAINTENANCE - REPAIRS, REPLACEMENTS	4,079.25	
OFFICE & ADMINISTRATIVE EXPENSES	33,087.52	
CREDIT CARD DISCOUNTS	1,042.49	
TELEPHONE	2,974.26	
RENTALS	3,488.89	
PROVISION FOR RENEWALS & REPLACEMENTS	38,500.00	
TOTAL OPERATING EXPENSES		453,422.57
NET INCOME FROM OPERATIONS		$ 252,415.24
OTHER INCOME		2,887.64
OTHER EXPENSES		$ 255,302.88
TRANSFER TO CAMPUS CENTER M & O ACCOUNT		500,000.00
NET INCOME FOR PERIOD		$ (244,697.12)

Note: Figures reported on accrual basis.

SCHEDULE F-3

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER FOOD SERVICE
BALANCE SHEET
AS OF JUNE 28, 1975

ASSETS

CURRENT ASSETS:		
CASH IN BANK	$240,316.28	
CASH IN TRANSIT	7,177.12	
ACCOUNTS RECEIVABLE	106,187.37	
INVENTORY - FOOD	33,230.00	
ACCRUED RENTAL RECEIVABLE	14,394.36	
DUE FROM T.O.C. INC.	27,826.00	
TOTAL CURRENT ASSETS		$429,131.13
FIXED ASSETS:		
EDUCATION, TECH & REC EQUIPMENT	$ 6,128.07	
PLANT, SHOP & OPERATIONAL EQUIPMENT	15,271.21	
OFFICE EQUIPMENT	14,908.19	
HOUSEKEEPING & LAUNDRY EQUIPMENT	115,636.72	
BUILDING CAPITAL OUTLAY	23,547.94	
TOTAL FIXED ASSETS		175,492.13
PLANT FUNDS:		
RENEWAL & REPLACEMENT - CASH		87,000.00
TOTAL ASSETS		$691,623.26

LIABILITIES AND CAPITAL

CURRENT LIABILITIES:		
ACCOUNTS PAYABLE - TRADE	$ 27,412.68	
ACCOUNTS PAYABLE - CHARGE TIPS	2,043.26	
ACCRUED TAXES - MASS MEAL TAX	2,475.89	
TOTAL CURRENT LIABILITIES		$ 31,931.83
PLANT FUNDS:		
RENEWAL & REPLACEMENT OF FUND BALANCES		87,000.00
CAPITAL:		
RETAINED EARNINGS:		
BALANCE, JULY 1, 1974	$494,201.02	
NET INCOME FOR PERIOD	78,490.41	
ADJUSTMENTS	-0-	
RETAINED EARNINGS JUNE 28, 1975		572,691.43
TOTAL LIABILITIES AND CAPITAL		$691,623.26

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-4

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER FOOD SERVICE
INCOME STATEMENT
FOR THE PERIOD ENDED JUNE 28, 1975

SALES		
HATCH	$292,248.68	
CAFETERIA & COFFEE SHOP	770,478.89	
CATERING	317,532.84	
RESTAURANT	258,734.73	
RATHSKELLER	25,525.01	
LOUNGE	5,157.23	
HATCH BAR	3,806.14	
CONCESSIONS	17,085.71	
TOTAL SALES		$1,690,569.23
COST OF GOODS SOLD		
INVENTORY, JULY 1, 1974	$ 23,187.00	
PURCHASES	821,881.26	
	845,068.26	
LESS: PURCHASE RETURNS & ALLOWANCES	14,552.51	
TOTAL AVAILABLE FOR SALE	$830,515.75	
LESS: INVENTORY, JUNE 28, 1975	33,230.00	
TOTAL COST OF GOODS SOLD		797,285.75
GROSS MARGIN ON SALES		$ 893,283.48
OPERATING EXPENSES		
PAYROLL - PERMANENT EMPLOYEES	$420,107.71	
PAYROLL - OVERTIME	18,044.52	
PAYROLL - OTHER PROFESSIONAL SERVICES	1,918.27	
PAYROLL - STUDENT HOURLY	349,977.02	
PAYROLL - STUDENT WORK STUDY	544.73	
PAYROLL - NON-STUDENT HOURLY	140,632.46	
PAYROLL - NON-PROFESSIONAL - CONTRACT SERVICES	12,826.50	
CLOTHING	2,469.19	
HOUSEKEEPING SUPPLIES & EXPENSES	138,045.00	
HEAT & OTHER PLANT OPERATIONS	1,442.16	
TRAVEL & AUTOMOTIVE EXPENSE	560.34	
ADVERTISING AND PRINTING	20,019.07	
MAINTENANCE - REPAIRS, REPLACEMENTS	14,353.59	
SPECIAL SUPPLIES & EXPENSES	13,916.96	
OFFICE AND ADMINISTRATIVE EXPENSE	13,242.51	
RENTALS	5,301.21	
PROVISION FOR RENEWALS & REPLACEMENTS	29,000.00	
TOTAL OPERATING EXPENSE		1,182,401.24
NET INCOME (LOSS) FROM OPERATIONS		$ (289,117.76)
OTHER INCOME		
TOC RENTAL	$341,048.94[1]	
CASH OVERAGES	1,174.35	
MISCELLANEOUS	3,738.92	
ADMISSIONS	21,645.96	
TOTAL OTHER INCOME		367,608.17
NET INCOME FOR PERIOD		$ 78,490.41

[1] TOP OF CAMPUS, INC. INCOME RECORDED AS OTHER INCOME IN FOOD SERVICE BOOKS.

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-5

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER M & O FUND
BALANCE SHEET
AS OF JUNE 28, 1975

ASSETS		
CURRENT ASSETS:		
CASH IN BANK	$(661,588.36)	
CASH ON HAND	34,950.00	
PETTY CASH	50.00	
CASH IN TRANSIT	8,937.94	
ACCOUNTS RECEIVABLE - TRADE ACCOUNTS	56,390.50	
ACCOUNTS RECEIVABLE - MISCELLANEOUS	10,315.20	
INVENTORY - VENDING	2,539.44	
INVENTORY - UNION NEWS & SWEET SHOP	6,705.22	
TOTAL CURRENT ASSETS		$(541,700.06)
FIXED ASSETS:		
EDUCATION, TECH & REC EQUIPMENT	$ 11,321.11	
COMMUNICATIONS EQUIPMENT	11,731.33	
PLANT, SHOP & OPERATIONAL EQUIPMENT	27,599.21	
OFFICE EQUIPMENT	86,524.42	
HOUSEKEEPING & LAUNDRY EQUIPMENT	68,498.20	
BUILDING CAPITAL OUTLAY	51,016.04	
TOTAL FIXED ASSETS		256,690.31
PLANT FUNDS:		
RENEWAL & REPLACEMENTS - CASH		162,000.00
TOTAL ASSETS		$(123,009.75)
LIABILITIES & CAPITAL		
CURRENT LIABILITIES:		
ACCOUNTS PAYABLE - TRADE	39,935.86	
ACCRUED PAYROLL	2,219.64	
SALES TAX PAYABLE	76.95	
TOTAL CURRENT LIABILITIES		$ 42,232.45
PLANT FUNDS:		
RENEWAL & REPLACEMENT FUND BALANCES		162,000.00
CAPITAL:		
RETAINED EARNINGS:		
BALANCE, JULY 1, 1974	$(561,415.51)	
NET INCOME FOR PERIOD	234,173.31	
ADJUSTMENTS	-0-	
ADJUSTED RETAINED EARNINGS JUNE 28, 1975		(327,242.20)
TOTAL LIABILITIES AND CAPITAL		$(123,009.75)

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-6

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER M & O FUND
INCOME STATEMENT
FOR THE FISCAL YEAR ENDED JUNE 28, 1975

REVENUE		
CAMPUS CENTER FEE	$1,486,062.31	
LESS: FEE REFUNDS	20,081.85	$1,465,980.46
AMORTIZATION FEES - CONTINUING EDUCATION	40,422.65	
STUDENT UNION NEWS & SWEET SHOP	10,002.27	
GAMES AREA	108,457.25	
PRINT SHOP	(2,296.40)	
POST OFFICE SUB-STATION	(3,937.27)	
AUDIOVISUAL AIDS	(24,574.14)	
SCHEDULING OFFICE	9,161.25	
TICKET OFFICE	18,551.20	
CAMPUS CENTER SERVICES	(12,678.64)	
INTEREST INCOME	59,853.66	
MISCELLANEOUS INCOME	25,441.59	228,403.42
TOTAL REVENUE		$1,694,383.88
TRANSFERS FROM OTHER FUNDS		
TRANSFER FROM UNIVERSITY STORE	$ 500,000.00	
TRANSFER FROM PROGRAM OFFICE	3,483.77	
TOTAL TRANSFER OF FUNDS		$ 503,483.77
TOTAL REVENUE FOR PERIOD		$2,197,867.65
OPERATING EXPENSES		
ADMINISTRATION AND BUSINESS OFFICE	$ 279,057.16	
PHYSICAL PLANT MANAGEMENT	534,140.63	
TOTAL OPERATING EXPENSES		813,197.79
		$1,384,669.86
TRANSFERS TO OTHER FUNDS		
TRANSFER TO RSO	$ 97,420.00	
TRANSFER TO DEPT SERVICE	1,053,076.55	
TOTAL TRANSFER OF FUNDS		$1,150,496.55
NET INCOME (LOSS) FOR PERIOD		$ 234,173.31

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-7

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER - PROJECT #11 - ACCOMMODATIONS SERVICES
BALANCE SHEET
AS OF JUNE 28, 1975

ASSETS		
CURRENT ASSETS:		
CASH IN BANK	$378,099.45	
CASH ON HAND	1,400.00	
CASH IN TRANSIT	4,103.90	
ACCOUNTS RECEIVABLE	73,403.01	
ACCOUNTS RECEIVABLE MISCELLANEOUS	38,903.31	
TOTAL CURRENT ASSETS		$495,909.67
FIXED ASSETS:		
DUPLICATING EQUIPMENT	$ 296.00	
GENERAL OFFICE EQUIPMENT	10,748.89	
HOUSEKEEPING EQUIPMENT	6,286.34	
CAPITAL OUTLAY	38,735.85	
TOTAL FIXED ASSETS		56,067.08
PLANT FUNDS:		
RENEWAL & REPLACEMENT - CASH		39,000.00
TOTAL ASSETS		$590,976.75
LIABILITIES & CAPITAL		
CURRENT LIABILITIES:		
ACCOUNTS PAYABLE	$ 8,686.31	
PREPAID RESERVATIONS	1,978.50	
TOTAL CURRENT LIABILITIES		$ 10,664.81
PLANT FUNDS:		
RENEWAL & REPLACEMENT FUND BALANCES		39,000.00
CAPITAL:		
RETAINED EARNINGS:		
BALANCE, JULY 1, 1974	$309,313.94	
NET INCOME FOR PERIOD	231,998.00	
ADJUSTMENTS	-0-	
ADJUSTED RETAINED EARNINGS JUNE 28, 1975		541,311.94
TOTAL LIABILITIES AND CAPITAL		$590,976.75

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-8

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER - PROJECT #11 - ACCOMMODATIONS SERVICES
INCOME STATEMENT
FOR THE PERIOD ENDED JUNE 28, 1975

SALES		
ROOM SALES		$433,014.99
OTHER DEPARTMENTAL INCOME		
TELEPHONE	$ 18,825.43	
LAUNDRY	23,785.25	
MISCELLANEOUS	10,043.57	
		52,654.25
TOTAL SALES		$485,669.24
OPERATING EXPENSES		
PAYROLL - PERMANENT EMPLOYEES	$ 66,911.33	
PAYROLL - OVERTIME	1,784.08	
PAYROLL - STUDENT HOURLY	53,031.49	
PAYROLL - STUDENT WORK STUDY	862.74	
PAYROLL - NON-STUDENT HOURLY	12,905.10	
CLOTHING (UNIFORMS)	5,706.39	
BLANKETS, LINENS, ETC.	30,685.38	
CLEANING, LAVATORY, ETC. SUPPLIES	3,733.04	
OTHER HOUSEKEEPING SUPPLIES AND EXPENSES	5,766.82	
TRAVEL EXPENSES (FARES, HOTELS, MEALS)	55.04	
TRAVEL EXPENSES (PRIVATE AUTO MILEAGE)	152.88	
PRINTING AND BINDING	2,916.24	
MAINTENANCE & REPAIR CONTRACT SERVICES	283.58	
MAINTENANCE REPAIR MATERIAL	1,756.06	
EDUCATIONAL SUPPLIES - DUPLICATING	33.95	
STATE EMPLOYEES GROUP INSURANCE	2,841.77	
OTHER SUPPLIES AND EXPENSES	2,789.95	
POSTAGE	939.34	
STATIONERY, OFFICE AND ADMINISTRATIVE SUPPLIES	686.95	
OTHER ADMINISTRATIVE EXPENSES	507.82	
CREDIT CARD DISCOUNTS	2,001.93	
TELEPHONE	31,612.04	
OTHER RENTALS	12,707.32	
PROVISION FOR RENEWALS & REPLACEMENT	13,000.00	
TOTAL OPERATING EXPENSES		$253,671.24
NET INCOME FOR PERIOD		$231,998.00

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-9

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER - PROJECT #11 - PARKING GARAGE
BALANCE SHEET
AS OF JUNE 28, 1975

ASSETS			
CURRENT ASSETS:			
CASH IN BANK	$(78,829.54)		
CASH ON HAND	100.00		
CASH IN TRANSIT	1,080.65		
ACCOUNTS RECEIVABLE	6,934.92		
TOTAL CURRENT ASSETS		$(70,713.97)	
FIXED ASSETS:			
PLANT, SHOP & OPER EQUIPMENT	$ 1,154.00		
OFFICE EQUIPMENT	5,045.26		
CAPITAL OUTLAY	1,359.50		
TOTAL FIXED ASSETS		7,558.76	
TOTAL ASSETS			$(63,155.21)
LIABILITIES & CAPITAL			
CURRENT LIABILITIES:			
ACCOUNTS PAYABLE		$ 9,599.60	
LOANS PAYABLE		150,000.00	
TOTAL CURRENT LIABILITIES			$159,599.60
CAPITAL:			
RETAINED EARNINGS:			
BALANCE, JULY 1, 1974	$(146,930.21)		
NET LOSS FOR PERIOD	(75,824.60)		
ADJUSTMENT	-0-		
ADJUSTED RETAINED EARNINGS JUNE 28, 1974			(222,754.81)
TOTAL LIABILITIES AND CAPITAL			$(63,155.21)

NOTE: FIGURES REPORTED ON ACCRUAL BASIS.

SCHEDULE F-10

UNIVERSITY OF MASSACHUSETTS
CAMPUS CENTER - PROJECT #11 - PARKING GARAGE
INCOME STATEMENT
FOR THE PERIOD ENDED JUNE 28, 1975

SALES			
REVENUE - PERMANENT	$ 23,607.20		
REVENUE - TRANSIENT CARS	114,907.16		
REVENUE - HOTEL GUESTS	24,116.00		
REVENUE - OTHER	4,499.85		
TOTAL NET SALES			$167,130.21
OPERATING EXPENSES			
PAYROLL - PERMANENT EMPLOYEES		$ 22,674.14	
PAYROLL - OVERTIME		221.89	
PAYROLL - STUDENT HOURLY		8,666.53	
PAYROLL - WORK STUDY		987.73	
OTHER HOUSEKEEPING EXPENSES		6.30	
PRINTING AND BINDING		1,019.04	
MAINTENANCE & REPAIR CONTRACT SERVICES		595.00	
MAINTENANCE REPAIR MATERIAL		1,128.07	
STATE EMPLOYEES GROUP INSURANCE		567.54	
OTHER SUPPLIES AND EXPENSES		894.63	
STATIONERY, OFFICE & ADMINISTRATIVE.SUPPLIES		1,000.98	
LOAN INTEREST		8,175.00	
DEBT SERVICE		247,017.96	
TOTAL EXPENSES			292,954.81
NET INCOME (LOSS) BEFORE TRANSFER			(125,824.60)
TRANSFER FROM TRUST FUND INTEREST			50,000.00
NET INCOME (LOSS) AFTER TRANSFER			$(75,824.60)

Note: Figures reported on accrual basis.

UNIVERSITY OF MASSACHUSETTS

at Boston

SCHEDULE A-8

[illegible] CITY OF MASSACHUSETTS

[illegible] DETAILED BALANCE SHEET - BOSTON CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
[illegible]					
[illegible]	D/C BOSTON/CASHIE	.00	500.00	.00	500.00-
019152	D/C BOSTON/TRAVEL	2,000.00-	2,000.00	.00	.00
019153	D/C BOSTON/PAYROLL	.00	3,000.00	.00	3,000.00-
[illegible]	[illegible]	33,000.00	.00	.00	33,000.00-
[illegible]	SCHOOL CLEARING/BOSTON	1,350.00	.00	759,456.00	758,106.00-
[illegible]	PHYSICAL PLANT [illegible]	17.00	.00	8.00-	9.00-
[illegible]	TUITION & FEES/[illegible]	47,943.28-	.00	47,943.28	.00
019107	BOSTON CAMPUS INCOME	500,116.45	.00	.00	500,116.45-
[illegible]	FOOD SERVICES	15,410.51	.00	.00	15,410.51-
[illegible]	BOOK SHOP	17,919.18	2,500.00	.00	20,419.18-
[illegible]	STUDENT HEALTH SERVICE	37,090.18	.00	.00	37,090.18-
[illegible]	COPY CENTERS	32,106.06	.00	.00	32,106.06-
[illegible]	TRANSPORTATION & PARKING	163,705.71	1,000.00	.00	164,705.71-
[illegible]	CHILD CARE PROGRAM	9,275.94	.00	.00	9,275.94-
019336	JWR COMPUTER TRUST FUND	580.93	.00	.00	580.93-
019367	STORES INVENTORY	2,949.24	.00	.00	2,949.24-
	* FUND GROUP TOTAL *	763,657.92	9,000.00	807,391.28	1,580,049.20-
[illegible]					
[illegible]					
[illegible]	AMER CANCER SOC PSSO	4,021.00-	.00	.00	4,021.00
020014	CARNEGIE/WOMEN OPERATION	23,680.18	.00	.00	23,680.18-
020017	CARNEGIE/WOMEN PROGRAM	90,375.06	.00	.00	90,375.06-
020026	COTTRELL/SCHWARTZ	243.20	.00	.00	243.20-
020027	COTTRELL/VAN WILLIGEN	1,572.75	.00	.00	1,572.75-
020028	COTTRELL/WEINSTOCK	1,058.57	.00	.00	1,058.57-
020033	MAURICE FALK MED/KRAMER	616.00-	.00	.00	616.00
020049	IELT FY73 I ADMINISTRATI	103,607.50	.00	.00	103,607.50-
020050	IELT FY73 II IN-SERVICES	2,079.13	.00	.00	2,079.13-
020051	IELT FY73 III OPEN SPACE	1,220.72	.00	.00	1,220.72-
020052	IELT FY73 IV BILINGUAL	12,857.50-	.00	.00	12,857.50
020053	IELT FY73 V PAR CHIAL SC	1,500.00-	.00	.00	1,500.00
020054	IELT FY73 VI SECONDARY U	113.00-	.00	.00	113.00
020055	IELT FY73 VII IN-SERV RS	300.00-	.00	.00	300.00
020056	IELT FY73 VIII UNDERGRAD	3,372.06	.00	.00	3,372.06-
020057	IELT FY73 IX SUES	1,000.00-	.00	.00	1,000.00
020058	IELT FY73 X UNDERGRAD RI	150.00-	.00	.00	150.00
020060	IELT FY73 XII SIGHT SUPE	3,005.00-	.00	.00	3,005.00
020061	IELT FY73 XIII ADVISOR	553.88-	.00	.00	553.88
020062	IELT FY73 XIV TRAIN STAF	18,761.36-	.00	.00	18,761.36
020063	IELT FY73 XV ALT TRAIN	1,143.00-	.00	.00	1,143.00

SCHEDULE A-8

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - BOSTON CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
020064	IELT FY74 I ADMINISTRATI	76,048.96-	.00	.00	76,048.96
020065	IELT FY74 II IN-SERVICES	45,814.38-	.00	.00	45,814.38
020066	IELT FY74 III OPEN SPACE	15,391.35-	.00	.00	15,391.35
020067	IELT FY74 IV BILINGUAL	10,045.00-	.00	.00	10,045.00
020068	IELT FY74 V PAROCHIAL SC	5,085.00-	.00	.00	5,085.00
020069	IELT FY74 VI SECONDARY	9,250.00-	.00	.00	9,250.00
020070	IELT FY74 VII IN-SERV PG	2,300.00-	.00	.00	2,300.00
020071	IELT FY74 VIII UNDERGRAD	369.10-	.00	.00	369.10
020075	IELT FY74 XII SIGHT SUPE	8,800.00-	.00	.00	8,800.00
020076	IELT FY74 XIII ADVISOR	3,895.00-	.00	.00	3,895.00
020077	IELT FY74 XIV TRAIN STAF	20,497.92-	.00	.00	20,497.92
020078	IELT FY74 XV ALT TRAIN	9,365.00-	.00	.00	9,365.00
020095	MEDICAL FOUND/KRAMER	1,250.00	.00	.00	1,250.00-
020102	NATL LEAGUE OF CITIES	8,167.50	.00	.00	8,167.50-
020136	PETER S STRAUSS	750.32	.00	.00	750.32-
020153	AMER CHEM PRF 7750-AC5,6	2,814.78	.00	.00	2,814.78-
020170	IELT FY75 ADMIN	5,900.82-	.00	.00	5,900.82
020171	IELT FY75 OPEN SPACE	2,260.00-	.00	.00	2,260.00
020172	IELT FY75 BILINGUAL	400.00-	.00	.00	400.00
020173	IELT FY75 SECONDARY	2,960.00-	.00	.00	2,960.00
020174	IELT FY75 ATS STAFF	34,025.34-	.00	.00	34,025.34
020175	IELT FY75 ATS PROGRAMS	4,860.00-	.00	.00	4,860.00
020189	ACS-PRF DEP RESEARCH	500.00	.00	.00	500.00-
020546	MERK AND CO	54.10	.00	.00	54.10-
022650	NSF GB 32530	.00	3,715.18	.00	3,715.18-
022712	NSF GA 35617	.00	38,872.88	.00	38,872.88-
022836	NSF GY 10135	.00	229.50	.00	229.50-
022896	NSF GZ 3046	.00	1,774.15	.00	1,774.15-
022900	NSF GZ 3235	.00	14,800.00	.00	14,800.00-
022920	NSF RMS 74 20577	.00	4,868.83	.00	4,868.83-
022940	NSF RMS 75 03188	.00	15,598.82	.00	15,598.82-
025325	PHS GM 13689-03	.00	2,231.27	.00	2,231.27-
025326	PHS GM 13689-04	3,651.54-	57,913.22	.00	54,261.68-
025337	PHS FY 01012-03	.00	1,918.46	.00	1,918.46-
025379	PHS GM 19645-01	235.61	235.61-	.00	.00
025380	PHS GM 19645-02	.00	2,750.35	.00	2,750.35-
025553	PHS MH 26112-01	.00	688.86	.00	688.86-
025622	PHS CA 17436-01	.00	35,136.83	.00	35,136.83-
027647	SRP-DEG 0-71-2455	.00	51,983.48	.00	51,983.48-
027755	DEG-1-74-8441	.00	8,980.35	.00	8,980.85-
027758	DEG-1-74-8458	.00	8,210.35	.00	8,210.86-
027759	DEG-310-75-000348 (4+2)	.00	85,000.00	.00	85,000.00-
027760	DEG-310-75-000428 (4+2)	.00	121,250.00	.00	121,250.00-
027761	DEG-74-2361	.00	3,556.07	.00	3,556.07-
027732	DEG 08-058335	.00	50,000.00	.00	50,000.00-

SCHEDULE A-8

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - BOSTON CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
[illegible]	DEG-0-74-[illegible]551	.00	73,492.05	.00	73,492.05-
[illegible]	DEG-0-74-6382	.00	4,235.00	.00	4,235.00-
[illegible]	[illegible]-INITIAL/BOSTON	.00	1,375.53	.00	1,375.53-
[illegible]	[illegible]-CONTINUING/BOSTON	181.95	79.05	.00	261.00-
[illegible]	[illegible]/BOSTON	183,957.00	.00	.00	183,957.00-
[illegible]	[illegible]-14-1[illegible]-[illegible]-021	810.00-	.00	.00	810.00
[illegible]	BOSTON URBAN OBSERVATORY	15,952.43-	.00	.00	15,952.43
[illegible]	NEH FH-9650-74-111	13,829.72-	.00	.00	13,829.72
[illegible]	NEH FP 9236-73-340 W C	3,533.95-	.00	.00	3,533.95
[illegible]	NEH-20134-74-557	28.00-	.00	.00	28.00
[illegible]	NEA-R50-42-253	7,000.00	.00	.00	7,000.00-
[illegible]	NEH-AY-21314-75-199	3,361.25-	.00	.00	3,361.25
[illegible]	ACTION 73-00-047-000+-72	3,771.27-	.00	.00	3,771.27
[illegible]	ACTION 347-1201	4,772.17-	.00	.00	4,772.17
029161	ACTION 337-1301	25,690.24	.00	.00	25,690.24-
029257	BHE IMPACT (TITLE 1)	2,785.96-	.00	.00	2,785.96
029273	MASS DEPT CORRECTION	69,322.83-	.00	.00	69,322.83
029284	OCCUPATION ED CEM TRAINS	5,384.28	.00	.00	5,384.28-
029309	BHE TITLE I 72-024-015	513.51-	.00	.00	513.51
[illegible]	MA DEPT NAT RES/LUEDTKE	12,676.86-	.00	.00	12,676.86
[illegible]	BHE 74 024 007	8,424.62-	.00	.00	8,424.62
029326	MA/WIN # 034-4141-5002	2,076.84	.00	.00	2,076.84-
[illegible]	MA DEPT CORR FY/75	41,941.64-	.00	.00	41,941.64
[illegible]	BOSTON SCHOOL COMMITTEE	419.88	.00	.00	419.88-
[illegible]	BOSTON SCH COM TITLE III	477.58-	.00	.00	477.58
029711	SAFE STREETS 73C-091-115	1,647.66	.00	.00	1,647.66-
[illegible]	SAFE STREET #74C-025.035	4,388.53-	.00	.00	4,388.53
[illegible]	SAFE STREET #74C-083-115	45,421.93-	.00	.00	45,421.93
[illegible]	BILINGUAL COLLEGE PREP	4,747.86	.00	.00	4,747.86-
[illegible]	SAFE STREET 75C-177.1100	4,101.83-	.00	.00	4,101.83
[illegible]	BOSTON SCHOOL 31-71-0008	12,742.20-	.00	.00	12,742.20
[illegible]	BOSTON SCH 31-73-0001-01	1,852.00-	.00	.00	1,852.00
[illegible]	BOSTON SCH 31-73-0002	3,650.00-	.00	.00	3,650.00
032000	SURVEY RESEARCH PROGRAM	95,936.16-	.00	.00	95,936.16
032001	DAAK 03-74-C-0093	20,058.95	.00	.00	20,058.95-
032002	COMM ON GAMBLING POLICY	7,279.35	.00	.00	7,279.35-
032003	MA DEPT PUBLIC HEALTH	96,960.32	.00	.00	96,960.32-
032004	JEWISH PHILANTHROPIES	5,356.14	.00	.00	5,356.14-
032005	R I HEALTH SURVEY 75	22,100.08-	.00	.00	22,100.08
032006	MA DEPT PUBLIC HEALTH	475.99-	.00	.00	475.99
032550	NSF GU-4209 BOSTON	.00	2,649.01	.00	2,649.01-
033500	CWS-FED FY75(POST MATCH)	127,435.06-	60,660.11	.00	65,774.95
033501	CWS-FED FY75(03 MATCH)	.00	11,228.46	.00	11,228.46-
033511	CWS-BOSTON COMMUNITY SCH	397.10-	.00	.00	397.10
033512	CWS-BOSTON LEGAL ASSIST	282.15-	.00	.00	282.15

SCHEDULE A-8

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - BOSTON CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
033515	CWS-BOS STATE HOSP FAM	212.30-	.00	.00	212.30
033517	CWS-CAMBRIDGE COMM SCH	572.22-	.00	.00	572.22
033522	CWS-CHILDREN IN CRISIS	1,031.85-	.00	.00	1,031.85
033523	CWS-COMMUNITY ADVAN PROG	63.80-	.00	.00	63.80
033524	CWS-TOWN OF DEDHAM	3,702.31-	.00	.00	3,702.31
033525	CWS-DORCHESTER HOUSE	1,902.51-	.00	.00	1,902.51
033527	CWS-MA INTERNSHIP PROG	280.12-	.00	.00	280.12
033532	CWS-SUMMERTHING	599.77-	.00	.00	599.77
033533	CWS-WEST MEDFORD COMM	273.89-	.00	.00	273.89
033534	CWS-CITY OF QUINCY	337.97-	.00	.00	337.97
033535	CWS-TEEN EDUCATION CTR	195.25-	.00	.00	195.25
033536	CWS-NATL CTR ATTITUDE CG	851.75-	.00	.00	851.75
033537	CWS-BOSTON CITY COUNCIL	192.50-	.00	.00	192.50
033538	CWS-HORIZONS FOR YOUTH	19.25-	.00	.00	19.25
033539	CWS-SOUTH END NEIGHBOR	232.10-	.00	.00	232.10
033540	CWS-BROOKLINE RECREATION	173.25-	.00	.00	173.25
033541	CWS-CHARLES STREET MT HS	575.10-	.00	.00	575.10
033542	CWS-THE PEOPLES THEATRE	134.75-	.00	.00	134.75
033543	CWS-CITY OF REVERE	171.60-	.00	.00	171.60
033547	CWS-E BOST SOCIAL CENTER	78.00-	.00	.00	78.00
033554	CWS-TUFTS UNIV	66.67-	.00	.00	66.67
033563	CWS-A. B. C. D.	86.10-	.00	.00	86.10
033564	CWS-COOPER COMM CTR	88.00-	.00	.00	88.00
033566	CWS-ROXBURY BOYS CLUB	104.00-	.00	.00	104.00
033570	CWS-HOPE TALENT SEARCH	96.00-	.00	.00	96.00
033571	CWS-CARDINAL CUSHING	96.00-	.00	.00	96.00
033572	CWS-DRW-AMHERST	99.00-	.00	.00	99.00
033573	CWS-D MARR BOYS CLUB	112.00-	.00	.00	112.00
033574	CWS-	20.40-	.00	.00	20.40
034003	BANKHEAD-JONES BOS FY73	3,355.25	.00	.00	3,355.25-
034034	BANKHEAD-JONES BOS FY74	.21	.00	.00	.21-
034035	BANKHEAD-JONES BOS FY75	43,700.00	.00	.00	43,700.00-
034221	MERRILL-PALMER BOS FY73	1,834.81	.00	.00	1,834.81-
034330	VOIP ADMIN BOS FY74	6,430.87-	7,344.00	.00	913.13-
034331	VOIP INSTRUCTION BOS 74	.00	12.25	.00	12.25-
034334	VOIP/ADM/BOS FY75	.00	1,106.99	.00	1,106.99-
034335	VOIP/INSTR/BOS FY75	.00	2,972.00	.00	2,972.00-
034100	CHANCELLORS GRAD FELLOW	1,558.02	.00	.00	1,558.02-
037630	BRIAN RATTIGAN	212.95	.00	.00	212.95-
037670	JOHN RYAN FACULTY CONV	92.69	.00	.00	92.69-
037675	V C DAVIS SCHOL	223.10	.00	.00	223.10-
039510	ALLOT 7400-0014 STAFF ED	10,362.97	.00	.00	10,362.97-

SCHEDULE A-8

UNIVERSITY OF MASSACHUSETTS

7/30/75 DETAILED BALANCE SHEET - BOSTON CAMPUS

FUND	TITLE	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
	* FUND GROUP TOTAL *	154,142.35-	674,398.45	.00	520,256.10-
LOAN FUNDS					
064700	BOSTON EMERGENCY LOANS	.00	9,122.00	.00	9,122.00-
064800	UMB BOSTON	63,784.56	978,411.96	1,115,302.47-	73,105.95
	* FUND GROUP TOTAL *	63,784.56	987,533.96	1,115,302.47-	59,483.95
PLANT FUNDS					
072625	ALLOT 7400-8751 LIB BOOK	5,383.64	.00	.00	5,383.64-
072670	ALLOT 7490-0107 RENOVAT	9,448.27	.00	.00	9,448.27-
072680	ALLOT 7490-8682 RENOVAT	832.25	.00	.00	832.25-
075710	LAND-BOSTON CAMPUS	.00	8,715,900.00	.00	8,715,900.00-
076710	BUILDINGS-BOSTON CAMPUS	.00	81,484,100.00	.00	81,484,100.00-
078710	EQUIPMENT-BOSTON CAMPUS	.00	6,362,568.00	.00	6,362,568.00-
	* FUND GROUP TOTAL *	15,664.16	96,562,568.00	.00	96,578,232.16-
AGENCY FUNDS					
090200	STUDENT HEALTH INS/REC	4,509.56	.00	.00	4,509.56-
090600	MASSPIRG-BOSTON FEE	960.00	.00	.00	960.00-
093600	BOOK-FY75 (BOSTON)	260,523.74-	.00	.00	260,523.74
	* FUND GROUP TOTAL *	255,054.18-	.00	.00	255,054.18

SCHEDULE A-9

COMPARATIVE STATEMENT OF FUNDS FORWARDED TO STATE TREASURER

ON ACCOUNT OF INCOME FROM FEES, SALES AND SERVICES

BOSTON CAMPUS

	ACCOUNT NUMBER	1973		1974		1975	
INSTRUCTION							
TUITION - ACADEMIC YEAR	1350-40-02-40	$1,239,454.38		$1,537,002.91		$1,946,654.80	
TUITION - SUMMER SCHOOL	1350-40-13-40	91,545.25		57,737.00		133,635.00	
SALES	1350-64-02-40	3,149.00		3,274.00		4,556.11	
			$1,334,148.63		$1,598,013.91		$2,084,845.91
OPERATION OF PLANT							
RENT	1350-63-01-40	$ 1,968.87		$ 1,852.51		$ 2,894.99	
MISCELLANEOUS	1350-69-02-40	934.57		3,853.55		13,772.33	
			$ 2,903.44		$ 5,706.06		$ 16,667.32
			$1,337,052.07		$1,603,719.97		$2,101,513.23

STATE APPROPRIATION — BOSTON

COMPARATIVE STATEMENT BY SUBSIDIARY ACCOUNTS

SUBSIDIARY ACCOUNTS		1973	1974	1975
GENERAL MAINTENANCE				
7416-1001-01	SALARIES, PERMANENT POSITION	$ 7,714,774.00	$10,521,657.00 [1]	$13,063,311.00
7416-1001-02	SALARIES, OTHER	115,300.00	96,490.00	119,500.00
7416-1001-03	SERVICE, NON-EMPLOYEES	1,028,266.00	1,350,000.00	1,362,500.00
7416-1001-04	FOOD FOR PERSONS	-0-	-0-	56.00
7416-1001-05	CLOTHING	1,300.00	6,100.00	7,000.00
7416-1001-06	HOUSEKEEPING SUPPLIES & EXPENSES	2,000.00	3,000.00	8,436.00
7416-1001-07	LABORATORY, MEDICAL & GENERAL CARE	3,360.00	3,500.00	4,877.00
7416-1001-08	HEAT & OTHER PLANT OPERATIONS	126,100.00	1,184,000.00	2,288,400.00
7416-1001-09	FARM & GROUNDS	-0-	100.00	6,000.00
7416-1001-10	TRAVEL & AUTOMOTIVE EXPENSES	23,600.00	56,000.00	70,000.00
7416-1001-11	ADVERTISING & PRINTING	41,800.00	31,000.00	86,000.00
7416-1001-12	REPAIRS, ALTERATIONS & ADDITIONS	62,000.00	98,000.00	355,000.00
7416-1001-13	SPECIAL SUPPLIES & EXPENSES	316,700.00	308,000.00	443,000.00
7416-1001-14	OFFICE & ADMINISTRATIVE EXPENSES	202,000.00	232,000.00	353,000.00
7416-1001-15	EQUIPMENT	129,500.00	59,300.00	114,400.00
7416-1001-16	RENTALS	1,399,400.00	1,214,000.00	258,500.00
	TOTAL	$11,166,100.00	$15,163,147.00	$18,539,980.00
CAPITAL OUTLAY				
7416-9103-13	MOVING	$ 130,000.00	$ -0-	$ -0-
7490-0107-00	RENOVATIONS	-0-	-0-	9,830.27
7490-8682-00	RENOVATIONS	-0-	-0-	832.25
	TOTAL	$ 130,000.00	$ -0-	$ 10,662.52
	GRAND TOTAL	$11,296,100.00	$15,163,147.00	$18,550,642.52

[1] $338,668.84 for Retroactive Payroll (12/29/73 to 6/29/74) paid from State Reserve, not recorded as expense of University.

SCHEDULE A-11

STATE GENERAL MAINTENANCE APPROPRIATIONS

SUMMARY OF EXPENDITURES BY FUNCTIONAL DIVISION & SUBSIDIARY ACCOUNTS

BOSTON CAMPUS

ACCOUNT NAME & NUMBER		APPROPRIATION	EXPENDITURE	ENCUMBRANCES	REVERTED TO STATE TREASURER	BALANCE APPROPRIATIONS JUNE 30, 1975
GENERAL MAINTENANCE						
7416-1001-01	SALARIES, PERMANENT POSITIONS	$13,063,311.00	$13,062,515.65	$ -0-	$ 795.35	$ -0-
7416-1001-02	SALARIES, OTHER	119,500.00	119,491.13	-0-	8.87	-0-
7416-1001-03	SERVICES, NON-EMPLOYEES	1,362,500.00	1,355,372.53	-0-	7,127.47	-0-
7416-1001-04	FOOD FOR PERSONS	56.00	50.00	-0-	6.00	-0-
7416-1001-05	CLOTHING	7,000.00	6,989.73	-0-	10.27	-0-
7416-1001-06	HOUSEKEEPING SUPPLIES & EXPENSES	8,436.00	7,871.00	-0-	565.00	-0-
7416-1001-07	LABORATORY, MEDICAL & GENERAL CARE	4,877.00	4,874.01	-0-	2.99	-0-
7416-1001-08	HEAT, OTHER PLANT OPERATIONS	2,288,400.00	2,288,199.56	-0-	200.44	-0-
7416-1001-09	FARM & GROUNDS	6,000.00	5,984.52	-0-	15.48	-0-
7416-1001-10	TRAVEL & AUTOMOTIVE EXPENSES	70,000.00	69,945.35	-0-	54.65	-0-
7416-1001-11	ADVERTISING & PRINTING	86,000.00	85,798.80	-0-	201.20	-0-
7416-1001-12	REPAIRS, ALTERATIONS & ADDITIONS	355,000.00	354,579.50	-0-	420.50	-0-
7416-1001-13	SPECIAL SUPPLIES & EXPENSES	443,000.00	434,936.91	-0-	8,063.09	-0-
7416-1001-14	OFFICE & ADMINISTRATIVE EXPENSES	353,000.00	352,240.53	-0-	759.47	-0-
7416-1001-15	EQUIPMENT	114,400.00	113,987.03	-0-	412.97	-0-
7416-1001-16	RENTALS	258,500.00	257,976.59	-0-	523.41	-0-
	TOTAL	$18,539,980.00	$18,520,812.84	$ -0-	$19,167.16	$ -0-
CAPITAL OUTLAY						
7490-0107-00	RENOVATIONS	$ 9,830.27	$ 382.00	$ 9,445.00	$ -0-	$ 5.27
7490-8682-00	RENOVATIONS	832.25	-0-	832.25	-0-	-0-
	TOTAL	$ 10,662.52	$ 382.00	$10,275.25	$ -0-	$ 5.27
	GRAND TOTAL	$18,550,642.52	$18,521,194.84	$10,275.25	$19,167.16	$ 5.27

SCHEDULE B-7

UNIVERSITY OF MASSACHUSETTS - BOSTON CAMPUS

ENDOWMENT INCOME ON INVESTMENTS

	ACCOUNT CODE	BALANCE JULY 1, 1974	RECEIPTS	TRANSFERS	EXPENDITURES	BALANCE JUNE 30, 1975
POOLED FUNDS						
STUDENT AID, SCHOLARSHIPS & LOANS						
RICHARD T. HOCAN	0-37410	$ -0-	$672.13	$(372.13)	$300.00	$ -0-
PRIZES						
BRIAN RATTIGAN	0-37630	$162.89	$ 50.06	$ -0-	$ -0-	$212.95
JOHN W. RYAN FAC CONVOCATION	0-37670	98.33	44.36	-0-	50.00	92.69
		$261.22	$766.55	$(372.13)	$350.00	$305.64
NON-POOLED FUNDS						
STUDENT AID, SCHOLARSHIPS						
V.C. SAVIO	0-37675	$ -0-	$230.00	$ -0-	$ 6.90	$223.10
ENDOWMENT INCOME ON INVESTMENTS - TOTAL		$261.22	$996.55	$(372.13)	$356.90	$528.74

SCHEDULE C-2

STATEMENT OF STUDENT LOAN FUNDS - BOSTON

TRUST ACCOUNTS	BALANCE JULY 1, 1974	ADJUSTMENTS & INTEREST	LOAN TRANSACTIONS REPAID	LOANED	CANCELLED	BALANCE, JUNE 30, 1975 NOTES	CASH	TOTAL
BOSTON EMERGENCY LOANS	$ 9,502.33	$ (380.33)	$ -0-	$ -0-	$ 380.33	$ 9,122.00	$ -0-	$ 9,122.00
FEDERAL ACCOUNTS								
N. D. S. LOAN	785,675.41	261,521.11	30,938.38	229,093.77	2,309.59	978,411.96	68,784.56	1,047,196.52
GRAND TOTAL	$ 795,177.74	$261,140.78	$ 30,938.38	$ 229,093.77	$ 2,689.92	$ 987,533.96	$ 68,784.56	$1,056,318.52

UNIVERSITY OF MASSACHUSETTS

at Worcester

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UNIVERSITY OF MASSACHUSETTS

[illegible] DETAILED BALANCE SHEET - WORCESTER CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
[illegible]					
[illegible]	PETTY CASH/WORCESTER	.00	1,000.00	.00	1,000.00-
[illegible]	[illegible]	51,722.50	.00	51,722.50-	.00
[illegible]	[illegible]	363,608.08	25,000.00	.00	388,608.08-
[illegible]	[illegible]	10,775.14	.00	.00	10,775.14-
[illegible]	[illegible]	13,497.27	.00	25,000.00-	11,502.73
[illegible]	[illegible]	30,333.88	.00	.00	30,333.88-
	* FUND GROUP TOTAL *	469,936.87	26,000.00	76,722.50-	419,214.37-
[illegible]	[illegible]				
[illegible]	MA HEART ASSOC/WITCHER	305.08	.00	.00	305.08-
[illegible]	PHAR MFG ASSOC/COOKE	1,660.59	.00	.00	1,660.59-
[illegible]	PHAR MFG ASSOC/FEINBLATT	1,376.96	.00	.00	1,376.96-
[illegible]	PHS CO/LEIGHTON	1,965.34	.00	.00	1,965.34-
[illegible]	TRI-ST REG MED #1/WORC	9,134.20-	.00	.00	9,134.20
[illegible]	WORC FRANK HLTH ASSOC	346.84	.00	.00	346.84-
[illegible]	WELLIN COLLEGE/THE FAMILY	972.43	.00	.00	972.43-
[illegible]	MASS HEART ASSOC/PECK	7,065.76	.00	.00	7,065.76-
[illegible]	TRI-ST RES, MED/LIPWORTH	6,718.72-	.00	.00	6,718.72
[illegible]	WORC CANCER SOC VC-167	2,984.34	.00	.00	2,984.34-
[illegible]	CENTRAL MA LUNG/LIPWORTH	2,487.58	.00	.00	2,487.58-
[illegible]	MUSCULAR DYST/SINGER	515.51-	.00	.00	515.51
[illegible]	HEALTH & HOSPITALS INC	7,846.69-	.00	.00	7,846.69
[illegible]	CYSTIC FIBROSIS(3 BELK)	2,628.25-	.00	.00	2,628.25
[illegible]	AMER HEART/PECHET	441.60-	.00	.00	441.60
[illegible]	FOUND HEALING RESEARCH	6,000.00	.00	.00	6,000.00-
[illegible]	PHARMACOLOGY	350.00	.00	.00	350.00-
[illegible]	HERBERT ZITOWITZ FUND	631.50	.00	.00	631.50-
[illegible]	NSF GP 37334	.00	9,732.95	.00	9,732.95-
[illegible]	NSF GP 38350	.00	13,644.73	.00	13,644.73-
[illegible]	NSF BMS 74 17825	.00	3,138.20	.00	3,138.20-
022928	NSF BMS 75 15024	.00	11,174.35	.00	11,174.35-
[illegible]	NSF BMS 75 13052	.00	44,614.09	.00	44,614.09-
025111	PHS DE 03818-01	1,964.10	1,964.10-	.00	.00
025112	PHS DE 03818-02	.00	8,255.03	.00	8,255.03-
[illegible]	PHS RR 05712-03	.00	38,609.63	.00	38,609.63-
[illegible]	PHS AI 10306-02	.00	7,628.42	.00	7,628.42-
[illegible]	PHS NS 10733-03	.00	30,657.98	.00	30,657.98-
025296	PHS NS 11329-01	.00	5,128.19	.00	5,128.19-
[illegible]	PHS NS 11425-01	.00	11,751.67	.00	11,751.67-
025300	PHS NS 11425-02	.00	37,430.96	.00	37,430.96-

SCHEDULE A-12

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - WORCESTER CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
025334	PHS AM 13904-06	.00	24,185.59	.00	24,185.59-
025339	PHS HL 14523-02	42.60-	.00	.00	42.60
025341	PHS HL 14523-04	.00	60,396.32	.00	60,396.32-
025357	PHS GM 18332-03	.00	99.04	.00	99.04-
025364	PHS CA 15915-02	.00	9,427.40	.00	9,427.40-
025366	PHS AM 16550-01	.00	2,869.66	.00	2,869.66-
025367	PHS AM 16550-02	.00	17,239.83	.00	17,239.83-
025369	PHS AM 17456-01	.18-	.18	.00	.00
025370	PHS AM 17456-02	.00	35,913.27	.00	35,913.27-
025387	PHS PE 00095-03	63,337.00-	128,889.04	.00	65,552.04-
025388	PHS 015000006-04	.00	222,320.00	.00	222,320.00-
025390	PHS PE 08095-01	.00	94,212.35	.00	94,212.35-
025484	PHS AM 16552-01	.00	7,700.10	.00	7,700.10-
025485	PHS AM 16552-02	.00	25,197.54	.00	25,197.54-
025502	PHS GM 20641-01	.00	35,996.17	.00	35,996.17-
025505	PHS GM 20755-01	.00	60,297.44	.00	60,297.44-
025511	PHS AI 12467-01	.00	52,121.33	.00	52,121.33-
025514	PHS HL 16952-01	.00	25,185.69	.00	25,185.69-
025515	PHS HL 16952-02	.00	44,527.40	.00	44,527.40-
025517	PHS GM 21420-01	.00	1,391.44	.00	1,391.44-
025518	PHS GM 21420-02	.00	20,637.43	.00	20,637.43-
025520	PHS GM 21747-01	.00	6,009.86	.00	6,009.86-
025521	PHS GM 21747-02	.00	15,053.10	.00	15,053.10-
025529	PHS AM 17496-01	.00	17,552.99	.00	17,552.99-
025530	PHS AM 17496-02	.00	39,653.48	.00	39,653.48-
025583	PHS NS 12255-01	.00	15,895.39	.00	15,895.39-
025592	PHS AM 18269-01	.00	22,266.45	.00	22,266.45-
025595	PHS HL 18221-01	.00	90,639.27	.00	90,639.27-
025601	PHS HL 00048-01	.00	25,000.00	.00	25,000.00-
025604	PHS NS 12509-01	.00	21,410.90	.00	21,410.90-
025613	PHS HL 17752-01	.00	19,432.55	.00	19,432.55-
025616	PHS AM 17352-01	.00	34,255.00	.00	34,255.00-
025619	PHS CA 16369-01	.00	66,890.00	.00	66,890.00-
025625	PHS GM 22055-01	.00	26,922.00	.00	26,922.00-
025637	PHS GM 22583-01	.00	31,125.00	.00	31,125.00-
029308	BHE TITLE I 71-026-012	2,487.35-	.00	.00	2,487.35
032800	PHS RR-05712-04	.00	95,917.00	.00	95,917.00-
032801	GRSG-C MULDER	.00	3,000.00	.00	3,000.00-
032802	GRSG-T MILLER	.00	700.00	.00	700.00-
032803	GRSG-J DORSON	.00	2,500.00	.00	2,500.00-
032804	GRSG-I KATAYAMA	.00	2,486.08	.00	2,486.08-
032805	GRSG-B FELLNER	.00	450.00	.00	450.00-
034013	BANKHEAD-JONES WORC FY73	258.34	.00	.00	258.34-
034014	BANKHEAD-JONES WORC FY75	1,450.00	.00	.00	1,450.00-
034044	BANKHEAD-JONES WORC FY74	3.44	.00	.00	3.44-

SCHEDULE A 12

UNIVERSITY OF MASSACHUSETTS

6/30/75 DETAILED BALANCE SHEET - WORCESTER CAMPUS

FUND	NAME	CASH	OTHER ASSETS	LIABILITIES	FUND BALANCE
[illegible]	[illegible]-NELSON [illegible] FY73	18.25	.00	.00	18.25-
[illegible]	[illegible] JOHNSON FELLOWSHIP	320.00-	.00	.00	320.00
036720	PHS-GM-05446-01 FELLOW	.00	482.25	.00	482.25-
036812	PHS-GM-57293-01	.00	953.50	.00	953.50-
036870	HEALTH PROFESSIONS SCHOL	.00	1,503.00	.00	1,503.00-
036872	HEALTH PROFESSIONS SCH75	.00	14,855.00	.00	14,855.00-
036891	CLASS OF 74 SPITTER FUND	425.00	.00	.00	425.00-
036892	LAMAR SPUTTER FUND-1975	3,190.00	.00	.00	3,190.00-
037040	ANONYMOUS MEDICAL SCHOOL	3,836.45	.00	.00	3,836.45-
	* FUND GROUP TOTAL *	56,680.10-	1,543,362.14	.00	1,586,682.04-
LOAN FUNDS					
042300	R J JOHNSON FUND LOANS	11,944.94	5,300.00	.00	17,244.94-
049100	HEALTH PROFESSIONS LOANS	21,992.78	69,419.44	91,412.22-	.00
	* FUND GROUP TOTAL *	33,937.72	74,719.44	91,412.22-	17,244.94-
PLANT FUNDS					
070160	ALLOT 7490-8724 LAND ACQ	65,444.01	.00	.00	65,444.01-
072527	ALLOT 7403-8751 LIB BOOK	29,259.20	.00	.00	29,259.20-
75910	LAND-WORCESTER CAMPUS	.00	739,400.00	.00	739,400.00-
076810	BUILDINGS-WORCESTER CAMP	.00	506,800.00	.00	506,800.00-
078910	EQUIPMENT-WORCESTER CAMP	.00	3,249,953.00	.00	3,249,953.00-
	* FUND GROUP TOTAL *	94,703.21	4,496,153.00	.00	4,590,856.21-

SCHEDULE A-13

COMPARATIVE STATEMENT OF FUNDS FORWARDED TO STATE TREASURER

ON ACCOUNT OF INCOME FROM FEES, SALES AND SERVICES

WORCESTER CAMPUS

	ACCOUNT NUMBER	1973		1974		1975	
INSTRUCTION							
TUITION	1351-40-01-40	$ 37,800.00		$ 60,900.00		$ 44,700.00	
SALES	1351-64-01-40	-0-	$ 37,800.00	-0-	$ 60,900.00	20.49	$ 44,720.49
OPERATION OF PLANT							
MISCELLANEOUS	1351-63-01-40	$ 19.20		$ 213.65		$ 1,340.40	
RENT	1351-69-01-40	2,400.00	2,419.20	2,000.00	2,213.65	89,839.18	91,179.58
			$ 40,219.20		$ 63,113.65		$ 135,900.07

SCHEDULE A-14

STATE APPROPRIATION - WORCESTER

COMPARATIVE STATEMENT BY SUBSIDIARY ACCOUNT

SUBSIDIARY ACCOUNT		1973	1974	1975
GENERAL MAINTENANCE				
7411-1005-01	SALARIES, PERMANENT	$ 1,530,119.58	$ 2,222,000.37 [1]	$ 3,625,718.12
7411-1005-02	SALARIES, OTHER	70,737.41	328,000.19	362,500.00
7411-1005-03	SERVICES, NON-EMPLOYEES	455,622.57	586,277.23	790,000.00
7411-1005-04	FOOD FOR PERSONS	-0-	-0-	20,000.00
7411-1005-05	CLOTHING	-0-	370.00	1,000.00
7411-1005-06	HOUSEKEEPING SUPPLIES & EXPENSES	15,397.96	45,913.00	57,000.00
7411-1005-07	LABORATORY, MEDICAL & GENERAL CARE	-0-	-0-	246,000.00
7411-1005-08	HEAT & OTHER PLANT OPERATIONS	182,977.90	899,999.53	1,329,000.00
7411-1005-09	FARM & GROUNDS	1,265.09	1,030.74	3,000.00
7411-1005-10	TRAVEL & AUTOMOTIVE EXPENSES	20,280.80	29,100.07	23,000.00
7411-1005-11	ADVERTISING & PRINTING	41,552.34	28,999.35	42,400.00
7411-1005-12	REPAIRS, ALTERATIONS & ADDITIONS	134,944.06	249,999.72	237,000.00
7411-1005-13	SPECIAL SUPPLIES & EXPENSES	330,607.69	450,124.59	283,000.00
7411-1005-14	OFFICE & ADMINISTRATIVE EXPENSES	104,056.07	105,000.39	136,720.00
7411-1005-15	EQUIPMENT	232,669.36	391,819.73	50,000.00
7411-1005-16	RENTAL	97,038.60	70,604.39	59,281.88
	TOTAL	$ 3,217,269.43	$ 5,409,239.30	$ 7,265,620.00
CAPITAL OUTLAY				
7490-0035	PLANS	$ -0-	$ -0-	$ 2,592.30
7490-8724	LAND ACQUISITION	-0-	-0-	65,444.01
	TOTAL	$ -0-	$ -0-	$ 68,036.31
	GRAND TOTAL	$ 3,217,269.43	$ 5,409,239.30	$ 7,333,656.31

[1] $83,974.28 for retroactive payroll (12/29/73 to 6/29/74) paid from State Reserve, not recorded as expense of University.

SCHEDULE A-15

STATE GENERAL MAINTENANCE APPROPRIATIONS

SUMMARY OF EXPENDITURES BY FUNCTIONAL DIVISION & SUBSIDIARY ACCOUNT

WORCESTER CAMPUS

ACCOUNT NAME & NUMBER		APPROPRIATION	EXPENDITURE	ENCUMBRANCES	REVERTED TO STATE TREASURER	BALANCE OF APPROPRIATION JUNE 30, 1975
GENERAL MAINTENANCE						
7411-1005-01	SALARIES, PERMANENT	$3,625,718.12	$3,622,179.11	$ -0-	$ 3,539.01	$ -0-
7411-1005-02	SALARIES, OTHER	362,500.00	360,560.60	-0-	1,939.40	-0-
7411-1005-03	SERVICES, NON-EMPLOYEES	790,000.00	787,691.31	-0-	2,308.69	-0-
7411-1005-04	FOOD FOR PERSONS	20,000.00	20,000.00	-0-	-0-	-0-
7411-1005-05	CLOTHING	1,000.00	683.87	-0-	316.13	-0-
7411-1005-06	HOUSEKEEPING SUPPLIES & EXPENSES	57,000.00	56,925.29	-0-	74.71	-0-
7411-1005-07	LABORATORY, MED. & GENERAL CARE	246,000.00	245,388.77	-0-	611.23	-0-
7411-1005-08	HEAT, OTHER PLANT OPERATIONS	1,329,000.00	1,328,777.18	-0-	222.82	-0-
7411-1005-09	FARM & GROUNDS	3,000.00	2,751.85	-0-	248.15	-0-
7411-1005-10	TRAVEL & AUTOMOTIVE EXPENSES	23,000.00	22,813.29	-0-	186.71	-0-
7411-1005-11	ADVERTISING & PRINTING	42,400.00	40,178.96	-0-	2,221.04	-0-
7411-1005-12	REPAIRS, ALTERATIONS & ADDITIONS	237,000.00	236,801.20	-0-	198.80	-0-
7411-1005-13	SPECIAL SUPPLIES & EXPENSES	283,000.00	281,552.24	-0-	1,447.76	-0-
7411-1005-14	OFFICE & ADMINISTRATIVE EXPENSES	136,720.00	136,363.24	-0-	356.76	-0-
7411-1005-15	EQUIPMENT	50,000.00	49,596.41	-0-	403.59	-0-
7411-1005-16	RENTALS	59,281.88	58,951.78	-0-	330.10	-0-
	TOTAL	$7,265,620.00	$7,251,215.10	$ -0-	$14,404.90	$ -0-
CAPITAL OUTLAY						
7490-0035	PLANS	$ 2,592.30	$ -0-	$ -0-	$ -0-	$ 2,592.30
7490-8724	LAND ACQUISITIONS	65,444.01	-0-	-0-	-0-	65,444.01
	TOTAL	$ 68,036.31	$ -0-	$ -0-	$ -0-	$68,036.31
	GRAND TOTAL	$7,333,656.31	$7,251,215.10	$ -0-	$14,404.90	$68,036.31

SCHEDULE B-8

UNIVERSITY OF MASSACHUSETTS - WORCESTER CAMPUS

ENDOWMENT INCOME ON INVESTMENTS

	ACCOUNT CODE	BALANCE JULY 1, 1974	RECEIPTS	TRANSFERS	EXPENDITURES	BALANCE JUNE 30, 1975
POOLED FUNDS						
[illegible] AND F.S. CROCE	0 37040	$1,644.80	$2,191.65	$ -0-	$ -0-	$3,836.45
ENDOWMENT INCOME ON INVESTMENTS - TOTAL		$1,644.80	$2,191.65	$ -0-	$ -0-	$3,836.45

SCHEDULE C-3

STATEMENT OF STUDENT LOAN FUNDS - WORCESTER

TRUST ACCOUNTS	BALANCE JULY 1, 1974	ADJUSTMENTS & INTEREST	LOAN TRANSACTIONS REPAID	LOANED	CANCELLED	BALANCE, JUNE 30, 1975 NOTES	CASH	TOTAL
R. W. JOHNSON	$ 27,244.94	$(10,000.00)	$ -0-	$ -0-	$ -0-	$ 5,300.00	$ 11,944.94	$ 17,244.94
FEDERAL ACCOUNTS								
HEALTH PROFESSION	46,967.78	40,000.00	600.00	$ 24,100.00	-0-	64,975.00	21,992.78	86,967.78
	$ 74,212.72	$ 30,000.00	$ 600.00	$ 24,100.00	$ -0-	$ 70,275.00	$ 33,937.72	$ 104,212.72

ANNUAL REPORT

OF

THE UNIVERSITY OF MASSACHUSETTS/AMHERST

FOR THE YEAR ENDING

JUNE 30, 1975

Chancellor's Statement ...

The 1975 fiscal year marked the beginning of a transition period for the Amherst campus of the University of Massachusetts--the end of a growth era started in the early 1960's, and the beginning of an era of austerity. The efforts of accomodating rapid expansion were replaced by problems of coping with developing improved accountability, and developing procedures to manage new fiscal constraints.

Fiscal constraints, brought about largely by faltering state and national economies are not unique to our campus, but nonetheless have caused an added dimension of concern to faculty and students alike. The various constraints, moreover, have caused serious dislocations in many of our programs. The Amherst campus, sensitive to these concerns, has initiated measures to reassess its role in the higher education community as well as to respond to the changing needs of our various continuencies. This reassessment will result in program adjustments over the next few years necessary to bring our programs into balance with these changing needs. During the fiscal year, a great deal of attention and effort have been directed towards an assessment of our mission. To spearhead this effort I appointed the Commission on Missions and Goals at the University of Massachusetts at Amherst. Also, several campus governance bodies have been addressing the difficult problems of academic and administrative program review. These efforts will result in a definitive plan to maintain the Amherst campus' position as the major public university of New England.

In the months and years ahead, the difficult task of operating in a

period of transition will continue. We are confident, however, that once this initial period of adjustment has been passed, the University of Massachusetts at Amherst will emerge even stronger and will continue its proper role of leadership in American higher education.

Randolph W. Bromery
Chancellor

The University of Massachusetts at Amherst ....

The Amherst campus of the University of Massachusetts has just completed its 108th year of operations. During fiscal year 1975, 24,700 students pursued their career objectives in regular academic programs on the campus. An additional 4,850 students were enrolled in Continuing Education programs and over 29,100 participated in conferences sponsored by the Continuing Education Division. The students enroll in 89 Bachelor degree programs, 9 Associate degree programs, 60 Master's degree programs, and 45 programs at the doctoral level. During the fiscal year which ended June 30, 1975, 5,565 degrees were conferred; 4,292 at the undergraduate level and 1,273 at the graduate level.

Campus personnel engage in a wide variety of instructional, research, and community and public service programs. Included in the above are the many specialized programs of the Agricultural Extension Service and the Animal Disease Control and Feed, Seed, and Fertilizer Testing Services provided by the control division of the College of Food and Natural Resources. Research grants and contracts exceeded $8.4 million for the campus during the fiscal year. Grants were received from federal agencies, state and local governments and private enterprises.

Located on 1273 acres of land in Amherst and the surrounding area, the Amherst campus has a physical plant which serves not only the instructional needs of the academic community but also hosts many of the cultural activities of Western Massachusetts. The Amherst campus is proud of its heritage and will continue to offer the finest in instructional, research, and public service programs to the citizen of the Commonwealth and the Nation.

Campus Organization and Administration

Administratively, the campus has two major functional areas:

Academic Affairs, and
Student Affairs.

Additionally, several other administrative and service units perform on the campus. A detailed campus organization plan is shown in Figure 1.

As may be noted, the Academic Affairs area includes regular academic departments, special academic service departments, and academic support units such as the campus library. Additionally, a school of graduate studies and other specialized programs that directly affect academic programs are located within Academic Affairs.

The Student Affairs area includes administrative activities that affect the quality of life of students attending the University of Massachusetts at Amherst campus. Specifically, Student Affairs includes such activities as housing, food services, counseling and admissions, registration and records and an Office of Residential Life.

Administrative functions are conducted by service units housed in staff support units. Staff support units include such offices as Planning, Budgeting and Institutional Studies, Alumni Affairs, and Public Affairs.

During the fiscal 1975, the campus operated without the services of a Vice Chancellor for Administrative Affairs. A review of the campus organizational structure without an incumbent in the position of Vice Chancellor for Administrative Affairs has been conducted and preliminary

findings indicate that the organizational structure of the campus could be strengthened by refilling the position. It is expected that steps to fill the position will be taken early in fiscal 1976 along with other organizational changes.

Although the campus is organized into two broad areas for administrative purposes, for programmatic purposes it is divided into five areas (programs). These program areas are:

Academic Programs,
Academic Support,
Student Affairs,
Institutional Support; and
Physical Plant Operations.

The following section gives a brief overview of activities carried out in these areas during fiscal year 1975.

Academic Programs:

A general characteristic of a university is that it is perceived as a place which promotes change. The Amherst campus has experienced an accelerated rate of change during fiscal 1975. The era of rapid growth, proliferation of new programs and departmental expansion has ended. The past year has been witness to program consolidation, program review, and the evaluation of optional future directions of academic programs. The primary focus has been to increase the quality of our academic programs within the existing constraints of limited enrollment, financial austerity, and changing student demands. This environment has fostered the establishment of an Academic Review Task Force which is investigating the possibility

of phasing out current programs, and consolidating others. Another outgrowth of this environment has been the creation of the Chancellor's Commission on Missions and Goals of the University. This group has similar objectives but encompasses a much broader scope.

Continuing research and development efforts of the faculty members have resulted in $8.4 million dollars of research grants and contracts awarded to Amherst faculty members during fiscal 1975.

There has been increasing investigation of the human elements of the academic program areas; i.e., the students and faculty. During the past year, enrollments have been assessed within the constraints of limited growth coupled with the objective to increase the quality of students at both the undergraduate and graduate levels. Faculty members comprise the other human element in this area. Extensive reviews have been made of the faculty workload. As a result of two years of developmental effort, a system has been implemented to record each faculty member's direct student contact hours as required by law and in addition, identify the indirect student contact hours, academic advising, research, and community and public service. In both of the above mentioned groups, students and faculty, there has been an attempt to view the total picture, not isolated factors of either group.

Several other specialized committees have been set up to evaluate programmatic and operational changes of the School of Education and the Continuing Education Division. Additional reviews were initiated for each graduate program offered by the Amherst campus.

Overall, the general direction has been to experiment with nontraditional approaches to higher education in order to provide quality education at reduced costs and to provide students with alternative modes of learning. Some of the more successful programs have been the University Without Walls and the Outreach Program, which are non-traditional approaches for both traditional and nontraditional students. These programs have attempted to mold the educational experience to the individuals' experiences and have had positive results for both the students and the academic community.

Academic Support

Due to financial stringencies, the academic support programs have been faced with the multifaceted fiscal pressure of decreased operating budgets, expanded demand for service, and rapid increases in the prices of their purchased goods and services. By innovative approaches to these fiscal problems and to increases in student demand for their services; the academic support programs have maintained a high quality of service. However, expansion and new program development have been severely curtailed.

During the past year the major project of the research computing center was the installation of a new central computer, the Control Data CYBER. As in the past, the instructional use of computers is extensive in engineering, computer sciences, physical sciences, and business. A significant growth occurred in the past year from users in the social sciences, particularly sociology and education. Instructional users constitute about 40% of the demand. In the area of research, an increase

in the utilization of computer technology in humanities, history literature and theatre is notable.

The system configuration consists of a central computer with a batch I/O station and an express station in the University Computing Center, a remote batch station at the student offices in Amherst and 90 dial-in timesharing ports in the Amherst area. There are two lines for timesharing in Worcester. In Boston there are two remote batch stations and 12 timesharing terminals. The installation of the CYBER system required considerable training of staff and users in the features of the new system. There was a significant number of man hours required for conversion of programs, libraries and files from the old system. The conversion went smoothly and quickly. A major difficulty resulted from software designed and written in-house for conversion of the old communication computer to the new system. This resulted in poor timesharing service in February and March which proved critical to some teaching programs. These problems have been solved and we are confident of providing excellent service in the Fall.

The Amherst campus library has also maintained its service during fiscal 1975. However, this service is in dire need of acquisitions to maintain their current status as a quality research library.

In FY 1975 expenditure for library acquisitions on the Amherst campus was $808,266 or $34.24 per student. The per student expenditure has declined continuously for many years. In 1963, for example, it was $49.00 per student. The national average in 1975 was approximately $60.00 per student. Among the 77 institutional members of the Association

of Research Libraries which constitute the University's peer group, the UMass/Amherst Library ranked 65 in FY 1974 with a per student expenditure for library acquisitions of $39.95. The average expenditure for this group was $55.18 per student and the median was $74.00 per student. This continuous decline in funds available for libraries has been accompanied by a marked increase in the number of publications available and a raging inflation in book prices of 14% to 16% per year (although this is expected to moderate in 1976 to a rate of 9% to 10%).

The result of these inflationary trends has been to markedly diminish the capacity of the library to supply the needs of its users. It has forced the library to reduce the number of books purchased and to concentrate its funds on serials and periodicals which are a library's major scholarly resource. In FY 1972 periodicals cost the Amherst campus $360,000, 34% of the total acquisitions budget of $1,043,494. By FY 1975, this cost was $540,520 or 66% of the FY 1975 budget of $808,266 and it was evident that the number of periodicals received would have to be reduced. During the years FY 1972 through FY 1975 the total number of periodical titles received has been approximately 16,000 a rather modest total for university libraries, which ranked the UMass Library 56 among its library peers. The average number of periodical titles held among these university libraries was 26,236. The University of Connecticut, for example, with 30% fewer students than UMass/Amherst has 23,000 periodical titles. Nevertheless, in FY 1975 a massive review of periodicals was conducted by UMass/Amherst faculty and staff. As a result of this review, at least 1,800 titles will be cancelled, and without sufficient funding an additional 3,000 journals and other periodicals are in jeopardy of being cancelled. If this occurs, the library will no longer be

fulfilling its role of supporting the educational mission of the university and many programs will be in danger of losing their accreditation.

Student Services Program

During fiscal 1975 major changes occured in student services on the Amherst campus. Among the more prominent change were the creation of an Office of Residential Life which now has responsibility for the coordination of management and student services in the Amherst campus residence halls. Additionally, because of increased pressures being placed upon our students and a declining and more selective job market, added emphasis is now placed on career counseling and guidance. In fact, a center of Student Development and Career Planning has been established.

Our University Health Services Center along with the Faculty Senate and the local medical community has been actively engaged in developing a comprehensive pre-paid health program for faculty, staff and dependents and other members of the Amherst community. The proposal calls for the ability of individual faculty to choose health care either through Valley Health Plan Inc. (a qualified HMO) or through the currently available Aetna Insurance Company program. Faculty, staff and dependents who chose to participate in the program could receive health care services either at the University Health Service Center or Amherst Medical Associates. Other members of the community could receive health care only through Amherst Medical Associates. A planning grant awarded by the Department of Health Education and Welfare has been used to help plan the program.

In the area of student housing, two items of long-term significance were begun in fiscal 1975. First, the campus agreed with a coalition of married students to explore the possibility of having student-run co-op apartments on the campus. Many students are under the impression that substantial savings can be made for tenants of the dormitories if a co-op arrangement is instituted. Legal, financial and other details of such an arrangement are currently being explored.

Secondly, the campus changed the mandatory dormitory living requirement from a policy based on the age of students (under 21 years of age) to one based on the academic level of students at the campus. This change was made because of legal action being taken by students and to accomodate concerns being expressed by local communities which centered on the possibility of flooding the rental market with students. Other aspects of this problem are still under study and further action may be taken in the future.

The campus has been fortunate in that it has received increasingly larger amounts of financial aid. This has, however, placed an increased administrative burden on the campus which is not fully offset by funds awarded to the campus to administer financial aid grants (administrative allowance funds). For this reason the campus is supporting a national move to have administrative allowance funds increased. If successful, the Financial Aid Office will better be able to serve students in the manner intended.

Finally, student services such as registration and records and admissions

are being stressed in order that students, the persons for which the University exists, will continue to be effectively served in both academic and non-academic endeavors.

Institutional Support Program

During the fiscal year ending June 30, 1975 the institutional support program engaged in activities which furthered the campuses ability to respond to internal and external information requests. Activities in these programs also were concerned with improving the managerial capabilities of the Amherst campus. Decisions made and actions taken during the fiscal year will influence the direction and information capabilities of the campus far into the future.

The installation and bringing on line of a new accounting system at the beginning of the fiscal year greatly improves the campus' fiduciary and managerial accounting capabilities. The accounting package developed by Information Associates, Inc., provides the capability for supplying campus administrators with accurate and up-to-date information about campus financial activities. The greater part of the fiscal year was dedicated to checking out all aspects of the accounting package and providing interfaces with various other managerial sub-systems of the campus. After accomplishing this tasks the idea of integrating this system into other systems for long-term managerial competence was accomplished.

Also, during fiscal 1975 the campus created a Management System Group. The Management Systems Group has been given the task of studying current situations which can or should lend themselves to automated processes

and designing such systems for the campus.

Facilities Planning & Operations (Physical Plant)

The department's mission is to plan, construct, maintain and operate the physical facilities at the Amherst campus and at the outlying research stations of Belchertown, Gloucester, South Deerfield, Waltham and Wareham. Located on 1,280 acres (one-half of which requires intensive maintenance), the Amherst campus has some 250 buildings with an area of nine million square feet. Currently, the department is operating with 130 fewer employees than the authorized operating complement of 976 professional and classified staff. Also, due to stringent budgetary constraints, support funds are declining at a time when some of our physical facilities require ever greater attention because of more rapid deterioration due to aging.

Statistics summarizing Amherst campus operations over the past eight years are presented to indicate the rate at which the campus has progressed during that period. Two separate figures have been prepared in order to highlight significant aspects of our operation. These are Degrees Awarded; Figure 2, and State Maintenance Appropriation, Figure 3. During the period covered by these figures and the eight year summary, the Amherst campus has made considerable progress in becoming one of the leading public universities in the United States.

STATISTICAL SUMMARY

STUDENT INFORMATION	FY 75	FY 74
Applications		
Undergraduate	21,712	21,607
Graduate	11,406	12,205
Total	33,118	33,812
Headcount Enrollment (Fall Semester)		
Undergraduate	19,523	18,971
Graduate	5,176	5,167
Total	24,699	24,138
Instructional FTE (Fall Semester)		
Undergraduate	19,344	19,079
Graduate	3,359	3,084
Total	22,603	22,163
Student Credit Hours (Fall Semester)		
Undergraduate	288,655	286,183
Graduate	40,302	37,015
Total	328,957	323,198
Degrees Awarded		
Associate	236	253
Bachelors	4,054	4,087
Masters	931	1,012
Doctorate[△]	342	355
Total	5,563	5,707
PERSONNEL INFORMATION (Authorized Positions)		
Faculty By Rank		
Professor	513	435
Associate Professor	454	445
Assistant Professor	408	436
Instructor	55	74
Lecturer	46	59
Total Faculty	1,476	1,449
Professional Staff		
Staff Administrator	13	*
Staff Associate	50	*
Staff Assistant	137	*
Other	283	*
Total Professionals	433	471
Classified Clerical	593	*
Classified Technical	290	*
All Other	891	*
Total Classified	1,774	1,762
TOTAL PERSONNEL POSITIONS	3,733	3,682

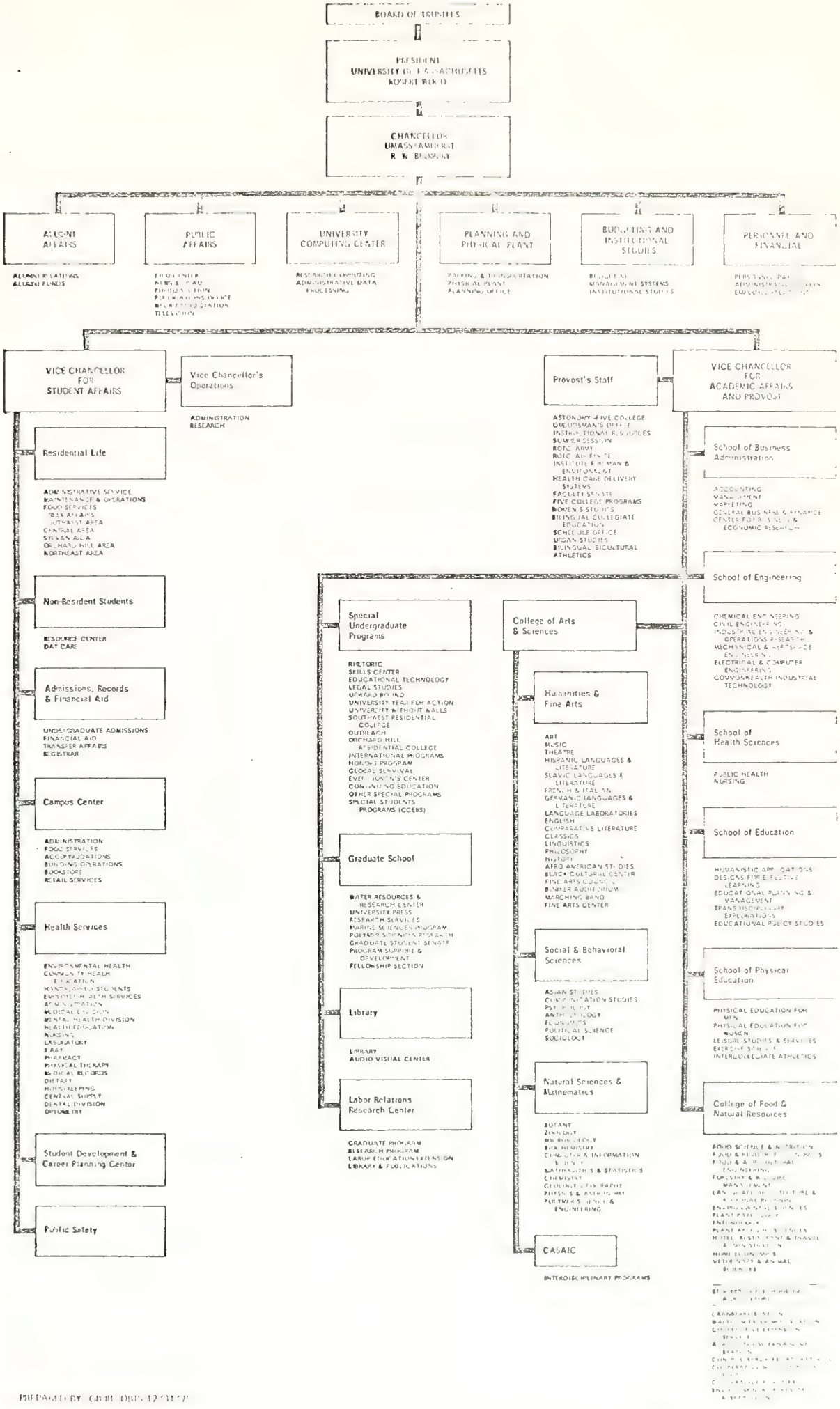
FINANCIAL INFORMATION (Unaudited Estimates)			
Source of Funds:	State	$72,473,000**	$64,534,952**
	Federal	12,280,000	*
	Private	1,276,000	*
	Fees & Other Income	32,096,000	*
	Total	$118,080,000	
Use of Funds:	Academic Programs	$ 60,660,000	*
	Plant Maintenance	16,953,000	*
	Administration	5,861,000	*
	Auxiliary Enterprises	24,070,000	*
	Student Services	11,826,000	*
	Other (Carryover & Reversions)	710,000	*
	Total	$118,080,000	

[△] Includes C.A.G.S.

*Data Not Available

**Does Not Include Tuition Which Reverts To The General Fund

FIGURE 1:

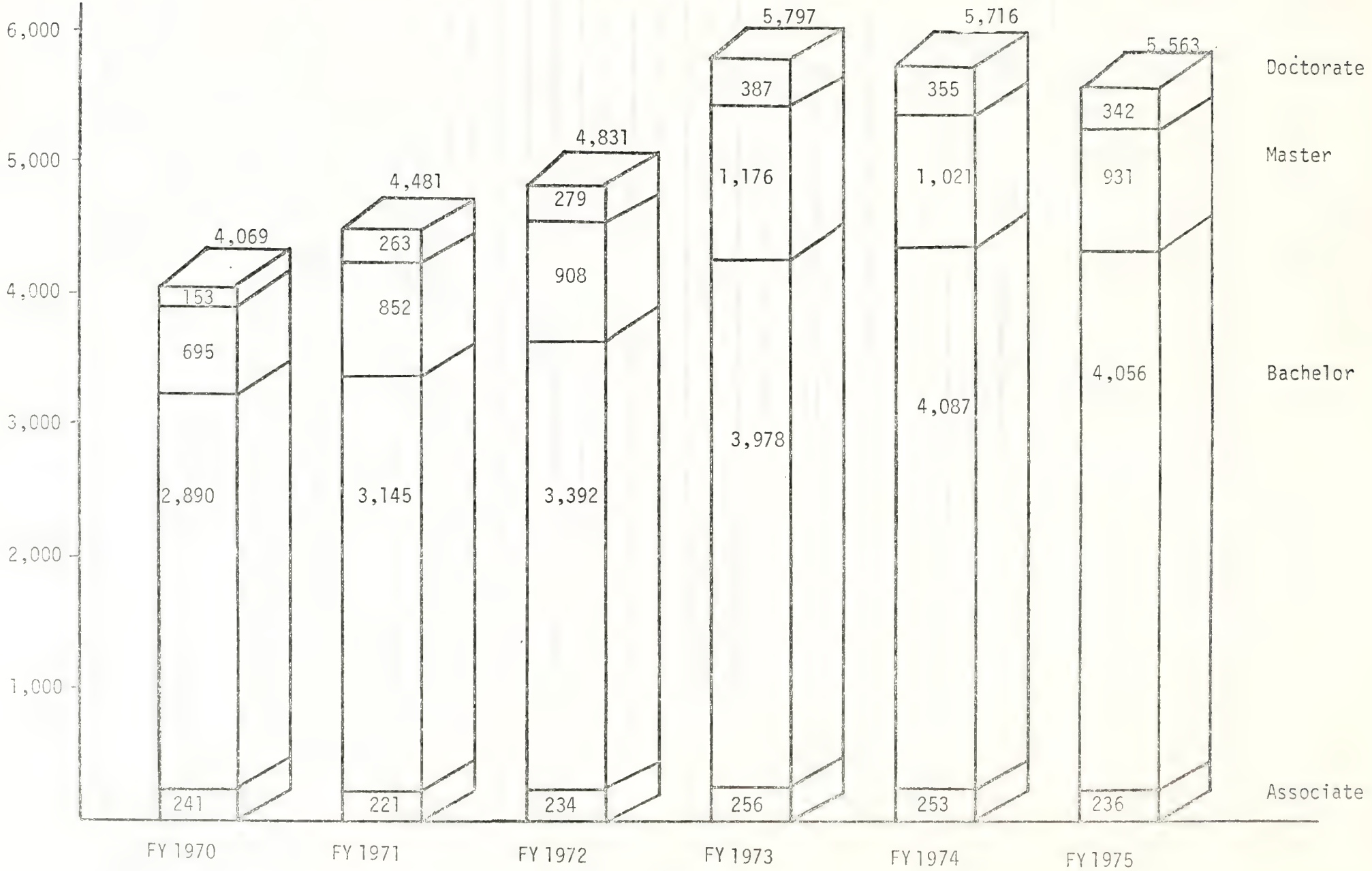


PREPARED BY CAMPUS PLANNING 12/11/77

FIGURE 2:

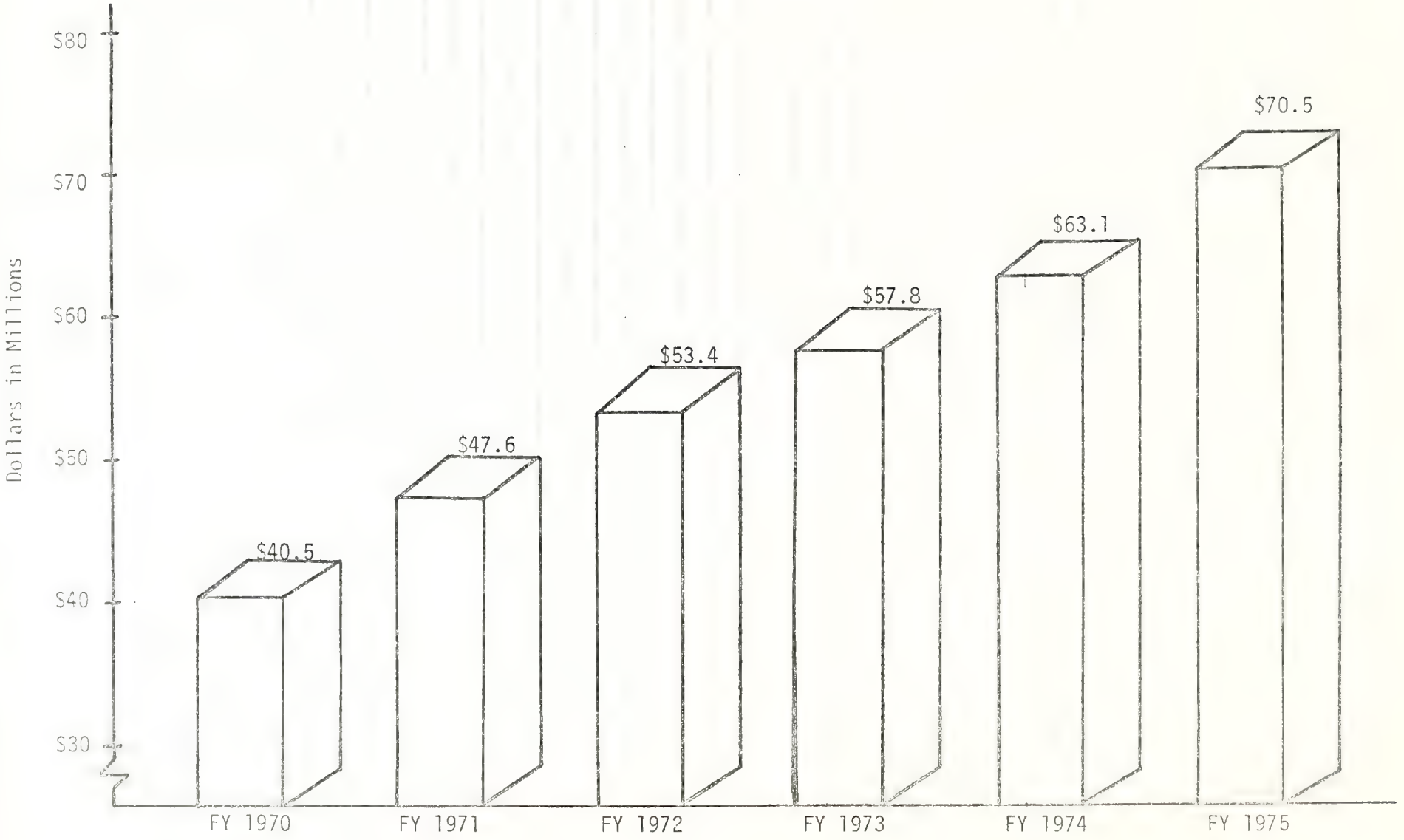
DEGREES GRANTED

UNIVERSITY OF MASSACHUSETTS/AMHERST CAMPUS



SOURCE: Undergraduate, Graduate, and Stockbridge Registrar's reports.

FIGURE 3:
STATE MAINTENANCE APPROPRIATIONS OF THE
UNIVERSITY OF MASSACHUSETTS/AMHERST CAMPUS
(In Millions of Dollars)



SOURCE: University of Massachusetts Financial Reports

UNIVERSITY OF MASSACHUSETTS AT AMHERST

EIGHT YEAR SUMMARY OF OPERATIONS

	FY 1975	FY 1974	FY 1973	FY 1972	FY 1971	FY 1970	FY 1969	FY 1968
UNDERGRADUATE ENROLLMENTS[A]	19,523	18,971	18,331	16,938	15,998	15,086	13,445	12,367
GRADUATE ENROLLMENTS	5,176	5,167	5,370	5,567	4,464	3,801	3,107	2,835
UNDERGRADUATE DEGREES[A]	4,292	4,340	4,234	3,626	3,366	3,221	2,811	2,426
GRADUATE DEGREES[B]	1,273	1,376	1,563	1,187	1,115	848	762	688
UNDERGRADUATE APPLICATIONS[A]	20,831	20,576	23,222	28,807	22,569	24,110	21,622	20,358
GRADUATE APPLICATIONS	11,406	12,204	13,417	14,578	12,788	10,111	7,365	6,448
ACADEMIC STAFF	1,591	1,564	1,529	1,472	1,372	1,272	1,057	957
PROFESSIONAL STAFF	368	356	342	337	330	325	218	218
CLASSIFIED STAFF	1,774	1,762	1,736	1,732	1,619	1,507	748	748
STATE MAINTENANCE APPROPRIATIONS	$70,449,300	$63,074,152	$57,837,173	$53,416,296	$47,571,160	$40,525,650	$33,534,500	$30,165,335
STATE SPECIAL APPROPRIATIONS	$ 1,535,530	$ 1,460,800	$ 1,247,190	$ 1,200,734	$ 1,815,834	$ 1,910,617	$ 1,625,492[D]	$ 1,163,434[D]
STATE CAPITAL OUTLAYS	$ 494,172	$ 854,172[C]	$ -0-	$ 218,500	$ 2,000,000	$ -0-	$ 1,197,895	$ 1,032,000

[A] Includes Stockbridge School Information

[B] Includes C.A.G.S. Degrees

[C] Library Books $494,172; Gloucester $360,000

[D] Includes $100,000 For Library Books.

SOURCE: Undergraduate, Graduate, and Stockbridge Registrar's Reports; Undergraduate Annual Report of the Admissions and Records Committee; Appropriation Acts by fiscal year; and the University of Massachusetts Financial Reports by fiscal year.

UMA: Office of Grant & Contract Administration

SPONSORED ACTIVITIES FOR FISCAL YEAR 1975

UNIVERSITY OF MASSACHUSETTS AT AMHERST

PAT W. CAMERINO

ACTING DIRECTOR

OFFICE OF GRANT AND CONTRACT ADMINISTRATION

SPONSORED ACTIVITIES -- FY 1975

During the period July 1, 1974 through June 30, 1975, the University of Massachusetts at Amherst received a minimum of $8.98 million in non-state-appropriated funds for the support of research, education and public service activities. This report summarizes data for these funds on the basis of faculty and the administrative units of the campus responsible for the execution of sponsored projects as well as on the basis of the sponsoring agencies offering financial support.

The level of total support recorded for FY 1975 is $3.93 million less than that given in our last fiscal year report of 1973. This decrease has occurred in the direct costs received by UMA; the indirect costs receivable by the campus in FY 1975 amount to $1.7 million, an increase of about $250 thousand over those of FY 1973. The decrease in the direct costs is significant in projects associated with central administrative offices and the School of Education.

Projects associated with the Faculty of Natural Sciences and Mathematics account for 40% of the direct costs recorded for UMA. The Department of Physics and Astronomy has projects which received approximately one million dollars for direct costs in FY 1975. During this fiscal year the projects of twenty different faculty members in a dozen administrative units are responsible for 40% of the total funding obtained by UMA in this fiscal year.

Federal agencies continue to provide the majority of funds (85%) for sponsored projects. The National Science Foundation has contributed 43% of the direct costs and the National Institutes of Health/National Institute of Mental Health 22% of these funds awarded in FY 1975. Of the 266 awards recorded, 73 were made by non-Federal sources. The average regular project funded by a Federal agency is $32,000 with $24,070 for direct costs and $7,930 for indirect costs; the average non-Federal award is $26,640 with no indirect cost associated with it.

The following narrative elaborates upon this information and offers tables for several comparisons. The appendices include an alphabetical listing of principal investigators reponsible for projects funded in FY 1975. For the preparation of this report outstanding contributions have been made by Ms. Diane Willett and Mrs. Shirley Morin who compiled all of the information given in the appendices. The assistance of Mrs. Maryanna Foster and Mrs. Martha Martin is also acknowledged.

Pat W. Camerino
Acting Director
Office of Grant and Contract
Administration

September 1975

SPONSORED ACTIVITIES

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INTRODUCTION

The statement is a commonplace -- nevertheless, the missions of a modern university do, indeed, include education, research and public service. The performance of these functions require human and fiscal resources. For the pursuit of educational excellence, appropriations are received from the Commonwealth of Massachusetts. However, innovative programs in higher education requiring additional funds must seek them from sources other than those directly obtainable from the State legislature. This is equally true for the research and scholarly work undertaken by faculty members to advance the state of knowledge in a wide variety of disciplines with the colateral benefit of improving their educational offerings for students. This report summarizes some of the results of the successful attempts by faculty and staff of the Amherst campus of the University of Massachusetts to obtain support for these efforts from external agencies.

The narrative and tables of this report address the sources and the recipient academic/administrative units of the campus which during the past year account for 266 awards amounting to $8.98 million. However, before appropriate comparisons can be made, it is necessary to consider how the report for Fiscal Year 1975 differs from those of prior fiscal years.

In FY 1975 a computerized information system was introduced in the Office of Research Affairs of the Graduate School. The comprehensive reports for FY 1972 and for FY 1973 were prepared based upon the documentation in this system. However, a year ago the Coordinator of Sponsored Activity Data, Ms. Margaret M. Alvin, left the Graduate School. Because of personnel freezes she has not been replaced. Consequently, no report has been prepared for FY 1974. In recognition that a replacement would not be forthcoming, the Office of Research Affairs at the outset of FY 1975 began a manual, i.e. non-computerized, collection of basic data for the construction of a fiscal year summary. The loss of staff for this function has had several results reflected in the current report that should be understood at the outset by the reader.

(1) Data are presented for the Amherst campus only. Prior reports included documentation for awards received by the Boston and by the Worcester campuses as well as by the President's Office.

(2) No attempt has been made to assure the completeness of the data reported. In prior years, extraordinary action was undertaken to obtain copies of award notices; cross-checks were made with centralized offices in Amherst, Boston and Worcester.

(3) A single listing of awards ordered alphabetically according to the name of the identified "principal investigator" is presented as an attachment to the narrative report. In prior years, it was possible to array the data in a variety of ways; in FY 1973 there were eight different listings.

(4) The tables are based upon awards received under restricted time limits. In prior years, the annual report appeared in the Spring following the fiscal year which ended the preceeding June 30. This extended period allowed for the time required to assure accuracy and completeness of the data. Since the needed verification process cannot be performed with the existing personnel restrictions, it was decided that the report should be prepared as quickly as possible at the completion of FY 1975 in the hope that the lack of completeness might be offset by having the data sooner.

Given the limitations cited above and those elaborated upon in the Methodology section of this report, it is hoped that the data will provide some reflection of the importance of sponsored funding for the accomplishment of the research, scholarship, educational and public service projects of the University of Massachusetts at Amherst.

SUMMARY OF SUPPORT FOR SPONSORED PROJECTS

During Fiscal Year 1975, the University of Massachusetts at Amherst received 266 awards at a total of $9.0 million. Of this amount, $7.3 million was for the direct costs for projects and $1.7 million for indirect costs. These levels are dramatically different from the comparable values reported for prior fiscal years:

Fiscal Year	Number Awards	Direct Cost	Indirect Costs	Total Awarded
1972	344	$11,231,000	$1,472,000	$12,703,000
1973	378	11,453,000	1,460,000	12,913,000
1975	266	7,280,000	1,701,000	8,981,000

The total costs in FY 1975 have decreased by 30.5% since FY 1973 and the direct costs costs by 36.4% whereas the amount received for indirect costs has increased by 16.5% over the FY 1973 level.

Although some portion of the significant decrease in the direct costs may be attributable to a deficiency in the reporting of awards, the vast bulk of the calculated difference is a reflection of diminished support in FY 1975 to central administrative offices and to the School of Education. The $4.2 million direct cost difference between FY 1973 and FY 1975 may be compared with the $3.9 million decrease in the awards associated with the Office of the Chancellor, the Office of the Provost (excluding the Institute for Man and Environment), the Graduate School (excluding Computer and Information Science and Polymer Science and Engineering) and the School of Education for

this period. Table I gives a comparison of the direct costs of awards associated with the major administrative units for fiscal years 1972, 1973 and 1975. The values for each unit are presented on the basis of the departments affiliated with them as of academic year 1974-1975 by recalculation of the amounts presented in the reports of prior fiscal years.

Dispite the overall decreases for the major academic units, particular departments, or their equivalents, continue to do well in obtaining outside funding for projects of interest to the faculty. In FY 1975 ten departments/institutes each received in excess of $200,000 for direct costs of awards. The resulting $4 million accounts for 56% of the direct costs for this fiscal year. These departments are identified in Table II-A. In this presentation awards attributed to the Polymer Research Institute have been combined with those identified with the Department of Polymer Science and Engineering, since it is difficult to verify the assignment of projects associated with these administrative units. Polymer Science and Engineering is now a department of the Faculty of Natural Sciences and Mathematics; this unit was formerly part of the Graduate School which continues to maintain the administrative responsibility for the Polymer Research Institute.

The unit which once again accounts for the highest level of direct cost for projects is the Department of Physics and Astronomy. In FY 1975 this department received about $1.1 million for direct costs, a 16% increase over the level of FY 1973. On the basis of total costs, which include indirect costs, the Physics and Astronomy Department projects result in a level of $1.4 million, an increase of 17% over the FY 1973 total costs. The Psychology Department has exhibited an apparent decrease of 30% from FY 1973 to FY 1975; however, the 1973 level includes $209,500 for a departmental award. If this is taken into consideration, the comparable 1973 direct cost amounts to $513,466 or a difference of only 1% from the lower direct cost of FY 1975. This example demonstrates the difficulty, and the cautions to be taken, in making comparisons between years.

In FY 1975 there were nine units, each of which received between $100,000 and $200,000 for direct costs for projects. These units are identified in Table II-B. The 19 units identified in these two tables would account for $5.24 million or 72% of the direct costs received in FY 1975.

There are thirteen individual projects each of which received over $100,000 in total costs (direct and indirect costs) in FY 1975. These projects are listed in Table III. They account for $2.22 million or 25% of the $8.98 million received by the campus.

The concentration of funds in a limited number of projects is further reflected by the observation that twenty faculty members in a dozen units have one or more projects whereby the work of each of these individuals accounts for over $100,000 in total costs received. In the aggregate, these twenty faculty members are responsible for $3.61 million or 40% of the total funding obtained by UMA in FY 1975. These faculty project directors are identified in Table IV.

TABLE I: COMPARISON OF DIRECT COSTS RECEIVED BY MAJOR ACADEMIC UNITS, FISCAL YEARS 1972, 1973, 1975

	FY 1972	FY 1973	FY 1975	% Change 1973-1975
	(dollars in thousands)			
Office of the Chancellor & of the Provost[1]	$ 245.4	$ 882.4	$ 95.0	- 89.2
College of Food & Natural Resources[2]	531.2	701.6	772.4	10.1
Faculty of Humanities & Fine Arts	36.4	205.5	81.8	- 60.2
Faculty of Social & Behavioral Sciences	687.5	894.8	767.0	- 14.3
Faculty of Natural Sciences & Mathematics[3]	2,167.9	2,661.8	2,890.8	8.6
School of Engineering	1,470.4	1,238.0	862.4	- 30.3
Graduate School[4]	1,276.1	832.9	338.0	- 59.4
School of Education	4,050.1	3,303.5	656.2	- 80.1
School of Business Administration	33.6	53.0	109.6	106.8
School of Health Sciences[5]	447.7	339.1	280.5	- 17.3
School of Physical Education	- 0 -	25.0	9.1	- 63.6

[1]Excludes Institute for Man & Environment

[2]Excludes USDA Hatch Funds and McIntyre-Stennis Funds; includes former Nutrition of the School of Home Economics

[3]Includes Polymer Science & Engineering and Computer & Information Science formerly in the Graduate School

[4]Excludes Polymer Science & Engineering and Computer & Information Science; but includes Polymer Research Institute

[5]Includes former Department of Public Health, School of Nursing and Department of Communication Disorders

TABLE IIA: DEPARTMENTS RECEIVING $200,000 OR MORE FOR DIRECT COSTS IN FY 1975

	FY 1975	FY 1973	% Change 1973-1975
Physics & Astronomy	$1,095,260	$ 940,512	16.5
Psychology	506,767	722,966	- 29.9
Chemistry	456,924	287,990	58.7
Polymer Science & Engineering/ Polymer Research Institute	431,113	472,686	- 8.8
Institute for Man & Environment	344,440	26,980	1176.6
Civil Engineering	301,374	549,025	- 45.1
Biochemistry	285,894	173,245	64.0
Electrical & Computer Engineering	216,249	204,176	5.9
Forestry & Wildlife Management	209,702	127,291	64.7
Computer & Information Science	205,661	169,588	21.3
	$4,053,384	$3,674,459	10.3

TABLE IIB: DEPARTMENTS RECEIVING BETWEEN $100,000 AND $200,000 FOR DIRECT COSTS IN FY 1975

	FY 1975	FY 1973	% Change 1973-1975
Anthropology	$ 119,903	$ 61,533	94.9
Botany	116,384	144,242	- 19.3
Chemical Engineering	101,090	126,101	- 19.8
Geology & Geography	161,002	131,664	22.3
Mechanical & Aerospace Engineering	163,550	202,176	- 19.1
Microbiology	113,747	281,762	- 59.6
Sociology	119,532	42,150	183.6
Division of Nursing	166,943	241,974	- 31.0
Water Resources Research Center	128,000	156,277	- 18.1
	$1,190,151	$1,387,879	- 14.3

TABLE III: FY 1975 AWARDS IN EXCESS OF $100,000 FOR TOTAL COSTS

PROJECT DIRECTOR ADMINISTRATIVE UNIT	TOTAL AMOUNT	FUNDING AGENCY PROJECT TITLE
Berger, Bernard B. Water Resources Research Center	$ 110,000	U. S. Department of the Interior, Office of Water Research and Technology Water Resources Research Center Annual Allotment
Dye, Larry L. School of Education	278,055	Massachusetts Department of Youth Services Advocates for the Development of Human Potential - Phase III
Evans, David R. School of Education	121,500	U. S. Agency for International Development Non-Formal Education in the Ecuador Project
Heronemus, William E. Civil Engineering	190,025	National Science Foundation Technical and Economic Feasibility of the Ocean Thermal Differences Process
Heronemus, William E. Civil Engineering	130,000	National Science Foundation Investigation of the Feasibility of Using Windpower for Space Heating in Colder Climates
Huguenin, G, Richard Physics & Astronomy	150,000	National Science Foundation Meter Wave Radio Astronomy Program
Huguenin, G. Richard Physics & Astronomy	312,800	National Science Foundation Millimeter Wave Telescope
Karasz, Frank E. Polymer Science and Engineering	235,400	National Science Foundation Research Program in Polymeric Materials
Kreisler, Michael N. Physics & Astronomy	160,000	National Science Foundation High Energy Physics -- Spark Chamber Program
Peterson, Gerald A. Physics & Astronomy	100,000	Energy Research and Development Administration Nuclear Structure Studies by the Scattering of High-Energy Electrons
Raush, Harold L. Psychology	109,741	National Institute of Mental Health Training Program in Clinical Psychology
Shafer, Janice Button Physics & Astronomy	158,000	Energy Research and Development Administration High-Energy Physics
Trail, Ira D. Nursing	163,895	National Institutes of Health, Bureau of Manpower Education Community Satellite Learning Centers to Implement BSN Curriculum
	$2,219,416	

TABLE IV: PROJECT DIRECTORS WHO HAVE ACCOUNTED FOR ONE OR MORE AWARDS FOR $100,000 OR MORE IN FY 1975

Faculty Member	Total Amount[1]	Department/Center/Institute
Arbib, Michael A.	$ 149,947	Computer & Information Science
Berger, Bernard B.	154,660	Water Resources Research Center
Brandts, John F.	179,363	Chemistry
Dye, Larry L.	298,895	School of Education
Evans, David R.	134,216	School of Education
Ford, Norman C.	107,000	Physics & Astronomy
Friedmann, Arnold	105,489	Institute for Man & Environment
Gawienowski, Anthony M.	104,655	Biochemistry
Halpern, Joel M.	100,325	Anthropology
Heronemus, William E.	322,275	Civil Engineering
Holmes, Robert R.	107,765	Chemistry
Huguenin, G. Richard	532,800	Physics & Astronomy
Karasz, Frank E.	241,100	Polymer Science & Engineering
Kreisler, Michael N.	160,000	Physics & Astronomy
Peterson, Gerald A.	194,000	Physics & Astronomy
Raush, Harold L.	109,741	Psychology
Shafer, Janice Button	158,000	Physics & Astronomy
Siggia, Sidney	135,600	Chemistry
Trail, Ira D.	163,895	Division of Nursing
Zube, Ervin H.	155,264	Institute for Man & Environment
	$3,614,990	

[1]The total costs (direct plus indirect) may reflect more than one award for which the faculty member is the designated "principal investigator".

In FY 1975 a total of $7.65 million or 85% of the $8.98 million received for projects is a result of awards from Federal agencies. Seven agencies, in turn, have awarded funds amounting to 82% of the Federal total costs. Only one of these agencies, the National Science Foundation, has shown increased support in FY 1975 over that of FY 1973 -- an increase for this period of 37% for total costs.

The most dramatic decrease has been in funds received from the Division of Education of the Department of Health, Education and Welfare (consisting currently of the U. S. Office of Education, the National Institute of Education, and the Fund for the Improvement of Post-Secondary Education). The percentage decrease from FY 1973 to FY 1975 has been 83% in the total cost for projects. In FY 1972, about 25% of the direct cost for UMA projects was derived from the Division of Education; in FY 1975 only 4% of the direct costs at the campus originated from this agency.

Table V presents a comparison of the direct costs and total costs (direct plus indirect) received in FY's 1972, 1973 and 1975 from

... National Science Foundation

... National Institutes of Health and
National Institute of Mental Health

... DHEW/Division of Education (USOE, NIE, FIPSE)

... Atomic Energy Commission[1], National Aeronautics and Space Administration, and Department of Defense

... All Federal agencies

Support for campus projects also comes from non-Federal sources. In FY 1975 the direct cost of 73 such projects amounted to $1.3 million or 18% of the direct costs received for all projects. This level of funding, however, was 62% below the amount received in FY 1973 for non-Federally supported activities. The following table shows the direct costs and the total costs received from non-Federal sources.

FY	Direct Costs	%*	Total Costs	%*
1972	$2,762,000	24.6	$2,834,000	22.3
1973	3,415,000	29.8	3,542,000	27.4
1975	1,312,000	18.0	1,330,000	14.8
Change in percent ('73 - '75)	-61.6%		-62.4%	

*%: [non-Federal/(Federal plus non-Federal)] 100

[1] In 1975 the Atomic Energy Commission was divided into two agencies, one of which is the Energy Research and Development Administration. In this report AEC and ERDA are used interchangeably.

TABLE V: COMPARISON OF DIRECT AND TOTAL COSTS RECEIVED BY UMA IN FISCAL YEARS 1972, 1973, 1975 FROM SELECTED FEDERAL AGENCIES

Agency	FY 1972 $ Amount	FY 1972 %	FY 1973 $ Amount	FY 1973 %	FY 1975 $ Amount	FY 1975 %	% Change in $ Amount 1973-1975
			D I R E C T C O S T O N L Y				
NSF	1,835,205	*21.7*	1,949,053	*24.2*	2,536,187	*42.5*	30.1
NIH/NIMH	1,286,728	*15.2*	1,439,360	*17.9*	1,334,735	*22.4*	- 7.3
OE/NIE/FIPSE	2,102,574	*24.8*	1,406,950	*17.5*	241,316	*4.0*	- 82.8
AEC/NASA/DOD	978,859	*11.6*	994,371	*12.4*	662,523	*11.1*	- 33.4
Subtotal	6,203,366	*74.3*	5,789,734	*72.0*	4,774,761	*80.0*	- 17.5
Federal[1]	8,469,502	*100.0*	8,037,814	*100.0*	5,968,227	*100.0*	- 25.7
	T O T A L C O S T S : D I R E C T P L U S I N D I R E C T						
NSF	2,338,604	*23.7*	2,441,181	*26.1*	3,349,055	*43.8*	37.2
NIH/NIMH	1,549,394	*15.7*	1,805,678	*19.3*	1,803,786	*23.6*	- 0.1
OE/NIE/FIPSE	2,289,972	*23.2*	1,433,972	*15.3*	247,000	*3.2*	- 82.8
AEC/NASA/DOD	1,235,395	*12.5*	1,222,331	*13.0*	887,880	*11.6*	- 27.4
Subtotal	7,413,365	*75.1*	6,903,162	*73.7*	6,287,721	*82.2*	- 8.9
Federal[1]	9,869,026	*100.0*	9,370,114	*100.0*	7,651,239	*100.0*	- 18.3

[1]Excludes McIntyre-Sennis and Hatch Funds received from USDA.

The Agricultural Experiment Station is an administrative unit of the University of Massachusetts at Amherst which recieves both Commonwealth and Federal support for its mission. In prior fiscal year reports, Federal support from the U. S. Department of Agriculture was included in the totals reported for the College of Food and Natural Resources. In this current report, the Federal levels received for McIntyre-Stennis funding and for Hatch funding have not been included in the tables. However, to present a more complete analysis of support for sponsored projects, the total funds for these Federal allocations have been obtained from the University's Director of the Agricultural Experiment Station. The relation of these funds with other campus support can be seen in Table VI.

METHODOLOGY

In order to have a better understanding of some of the values and comparisons contained in this report, as well as for an appreciation of the awards listed in the appendix, a few comments are required.

This report is for Fiscal Year 1975, that is, the period from July 1, 1974, through June 30, 1975. In order for an award to have been included in the summary tables, the Office of Research Affairs of the Graduate School[1] must have received a copy of the FY 1975 award document between June 15, 1974 -- when a manual record was initiated -- and July 31, 1975 -- when the record was closed for the fiscal year. In addition, the received award must have had a budget period start date which would fall between July 1, 1974, and June 30, 1975. Therefore, the summary tables exclude:

1) All awards received before June 15, 1974, even if the start date were within the period July 1, 1974 through June 30, 1975. ("Early" awards for FY 1975 would thereby be excluded.)

2) All awards received after July 31, 1975, even if the start date were before June 30, 1975, the end of FY 1975. ("Late" awards for FY 1975 would therby be excluded.)

The June 15, 1974, initiation period was a result of the need to produce monthly administrative reports for FY 1975. This was a fortunate requirement, since the computer system in the next few months became defunct due to personnel changes and the accompanying freeze on replacements. The July 31, 1975, closing date allowed for the receipt of most, if not all, of the FY 1975 awards

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[1]Effective July 14, 1975, this office has been re-designated the Office of Grant and Contract Administration; although at the present time it is still housed in the Graduate Research Center, it is no longer an element of the Graduate School.

TABLE VI: SUMMARY OF FUNDS RECEIVED BY THE UNIVERSITY OF MASSACHUSETTS AT AMHERST FOR SPONSORED PROJECTS, FY 1972, 1973, 1975

Fiscal Year	McIntyre Stennis*	Hatch Funds*	Other Federal	Non-Federal	Total
1972	$ 58,230	$622,481	$9,869,026	$2,834,079	$13,383,816
1973	63,655	646,777	9,370,114	3,542,452	13,622,998
1974	90,788	654,152	not available		not added
1975	102,717	712,496	7,651,239	1,300,024	9,766,476

*The levels for McIntyre-Stennis and for Hatch support allocated by the U. S. Department of Agriculture have been obtained from the Agricultural Experiment Station which administers these funds.

released by the Federal agencies in June. It might be noted that the listing in the appendix does include several awards with start dates before July 1, 1974. These awards were recieved in the latter half of June 1974 and have been included for informational purposes although not part of the analyses.

Reports for prior fiscal years have contained an extensive discussion of the reasons for the way in which multiple-year and single-budget-period-years are treated. Briefly, a two-year award from the NSF, for example, would not be pro-rated but is included as a single amount for the two years and identified with FY 1975. A one-year award with future committments, for example the -01 year of a three-year NIH award, is included for only the one year of support. In this way, each annual report summarizes "fresh" money received by the institution; it does not identify all active projects, i.e. those awarded funds in prior years that still have these funds to expend.

Extensive discussion has also been given in previous reports for the treatment of direct costs, indirect costs, carryover funds and total costs. The tables, as well as the appendix listing of awards, show the awarded direct cost. For those awards in which an identified indirect cost is given in the award statement, this indirect cost is shown in the appendix listing. For NIH awards which allow a 65% salary and wage indirect cost but do not show it on the award statement, the indirect cost has been calculated on the salary base awarded and the value is shown in the listing. The total cost is the awarded total. Usually it is the summation of the direct plus the indirect cost. However, for NSF grants, the agency rounds the awarded total -- this rounded total is shown in the tables of this report. For NIH grants, the total includes the calculated indirect cost. If funds have been carried over from a previous budget year, the awarded total is decreased by this amount. For these reasons the summation of the direct plus the indirect cost for a given award may not equal the reported "total" award.

Certain tables (A, B and C) appearing later in this report will show the summation of "indirect cost". These levels have been obtained by the actual summation of all FY 1975 awards, as defined above, which have indirect costs associated with them. The total reported for Federal grants and contracts is $1,701,344. On the other hand, the indirect cost calculated by subtracting the direct cost of $5,968,227 for Federally supported projects from the total cost of $7,651,239 would be $1,683,012. Indirect costs derived from non-Federal agencies amount to about $18,000. Thus, the indirect costs associated with projects funded in FY 1975 amounts to approximately $1.7 million.

The $1.7 million of "overhead" costs <u>are not used</u> for the normal activities associated with "overhead", for example telephones, maintenance, custodial services, etc. Although the <u>rate</u> of the indirect costs (65.0% of salaries and wages actually expended on Federal research grants) is the result of a Federal negotiation which takes into consideration the institution's actual overhead costs, the funds received as "indirect costs" become the Research Trust Funds and are allocated for the support of research and scholarly activities.

SOME COMPARISONS FOR SPONSORED PROJECTS

In FY 1975 a total of 266 awards for grants and contracts were the results of the efforts of 199 faculty and staff members of the campus. The distributions of direct, actual indirect and awarded totals according to acacemic units are given in Table A of Appendix I. The percentage distributions of these costs are shown in Figure 1 for the major budgetary units. In contrast to prior fiscal years, the Faculty of Natural Sciences and Mathematics is resonsible for the highest proportion of the funding. The School of Engineering ranks second. In FY 1973 the School of Education ranked first at 25% of the total costs and the Faculty of Natural Sciences and Mathematics second with 21% of the total costs.

During this period 193 of the 266 awards were received from Federal agencies. Table B of Appendix I shows the distribution of the direct, actual indirect and awarded totals for these agencies. Figure 2 presents the percentage distribution for the major Federal agencies. Since the National Science Foundation and the National Institutes of Health account for the largest proportion of these funds, Table C is given to show the distribution of support from these two agencies to the departments of the campus.

Non-Federal agencies also have provided support for UMA projects. In general, awards from these sources do not include indirect costs. In fact only $18,343 was received from non-Federal agencies in contrast to the indirect costs of $1.7 million from Federal sources. Non-Federal agencies may be roughly grouped into five general categories. The following summary gives the distribution of the 73 awards from such agencies:

	Number of Awards	Total Costs
Private Foundations	7	$ 167,912
Commonwealth of Massachusetts State Agencies	16	585,905
Massachusetts Communities	4	70,263
Industry	33	264,590
Other non-Federal	13	241,354
Total	73	$1,330,024

Table D of Appendix I identifies the specific non-Federal agencies which have made awards to the campus in FY 1975; Figure 2 also shows the percentage distribution of these funds.

It is sometimes desirable to be able to compare the average size grant or contract received by the campus. Care must be taken, however, to calculate the "average" after excluding certain anomalies. Table III identified 13 awards in excess of $100,000. If these awards are eliminated from the base, the average award for UMA can be calculated for several different categories.

Moreover, if 65.0% of the salary and wage results in the indirect cost, it is possible to calculate the average salary and wage budget category which would yield this level of overhead. The results of such calculations are given in Table VII.

The "average" Federal award is $32,000 with approximately $25,000 for direct costs and $8,000 for indirect costs in comparison with a non-Federal average of $14,500 for both the total and the direct cost and thus no indirect cost. The calculations for the average Federal grant would, of course, be strongly influenced by the average NSF and NIH award. The direct cost for these two agencies is also approximately $24,000. However two differences between NSF and NIH grants should be noted. The indirect cost received in association with NSF grants is slightly lower than the overhead for NIH grants ($8,680 - NSF; $10,070 - NIH). But even more significantly, the usual NSF grant is for a two-year budget period whereas that for an NIH grant is for a single year. Thus, the direct cost of an NIH grant or an annual basis is twice that of an NSF award.

The similarity of grants for related disciplines is also evident in the data of Table VII. Thus, the personnel budgets for Biochemistry and Chemistry are about $16,000 whereas Microbiology and Zoology are closer to $15,000. On the other hand, the salaries and wages for Mathematics grants are $7,500.

The average direct cost for an award to the School of Education is $17,700 if the calculation excludes the two large awards in excess of $100,000. The average total cost is only $260 more than the average direct cost indicating that most of these awards have no overhead associated with them.

The comparatively low direct cost of "engineering" awards may be a reflection of the number of industrial awards received by the Engineering faculty. The average industrial award is $8,020 in comparison with the average non-Federal award of $26,640 (excluding industrial awards).

LISTING OF AWARDS

In contrast to prior years when multiple listings have been presented, only a single one is offered for this year's report. Appendix II includes a list ordered by the name of the "Principal Investigator". The heading on each page should be kept in mind when using this listing.

Investigator --- the complete name of the individual in whose name the award has been made. This information is taken from the Internal Processing Form, the proposal, or the award notice. For a training grant, this is the name of the program director; for a fellowship, it is the name of the fellow.

TABLE VII: AVERAGE COSTS CALCULATED FOR AWARDS RECEIVED IN FY 1975

Category	Direct[1] Cost	Personnel[2] Budget	Non-Personnel[3] Budget	Indirect[4] Cost	Total Cost
Federal	24,070	12,200	11,870	7,930	32,000
NSF	23,730	13,350	10,380	8,680	32,410
NIH	23,950	15,490	8,460	10,070	34,020
Chemistry	26,880	16,000	10,880	10,400	37,280
Biochemistry	25,990	16,000	9,990	10,400	36,390
Physics/Astronomy	23,860	13,220	10,640	8,590	32,450
Botany	23,280	10,520	12,760	6,840	30,120
Microbiology	22,750	15,050	7,700	9,780	32,530
Zoology	21,240	15,140	6,100	9,840	31,080
Engineering	20,140	11,920	8,220	7,750	27,890
Mathematics/Statistics	8,730	7,510	1,220	4,880	13,610

[1]Calculated on a base which excludes awards in which the total cost exceeds $100,000, cf Table III

[2]Calculated from the indirect cost which is 65% of salaries and wages

[3]Calculated as the difference between the direct cost and the personnel budget

[4]Calculated as the difference between the average total cost and the average direct cost

Co-investigator --- usually this identifies only one person, who in addition to the investigator, is associated with the project. The information is taken from the Internal Processing Form, the proposal or the award notice. In certain instances the "Investigator" would be the "Principal Investigator" bearing the primary responsibility for the project, whereas the "Co-investigator" would be the "Program Director" who may have a day-to-day responsibility for the project. For student fellowships, this is the name of the faculty sponsor.

Department --- this term applies to academic departments within a College/School/Faculty as well as to other administrative units such as Centers (e.g. Water Resources Research Center), Institutes (e.g. Institute for Man and Environment) or the School of Education, Division of Nursing, etc. Names and organizational relationships current during FY 1975 have been used.

OCR No. --- this is a unique serial identification number assigned to a proposal processed by the Office. The first two digits indicate the fiscal year during which the proposal was submitted to the sponsor. An -S1 suffix is used for certain supplemental applications. Supplements have been counted as separate awards in this report.

Funding Agency --- the complete name of the sponsoring agency is given.

Grant/Contract Number --- the identifying number assigned by the agency, if available.

Project Title --- brief title for the project as obtained from Internal Processing Form, proposal or award document.

Budget Period --- the total period of the current award showing the start date and the terminal date of the budget; NSF awards usually are for 12 months with an automatic 6-month extension for completion of the project.

Key Words --- terms assigned by the Office to describe the content of the proposal. A hyphen appears in certain phrases under the original need to use this technique for the computer system based upon KWIC, Key Words in Content.

Indirect --- the actual indirect cost as given in the award statement or calculated upon the salary and wage base if not explicitly listed but allowed by agency policy, e.g. NIH awards.

Direct --- the direct cost as given in the award statement.

Total --- the total given in the award document which takes into consideration carryover funds, indirect costs and award rounding in accord with the funding agency's policy.

APPENDIX I

Summary of Tables and Figures

Table A	Funds Received for Sponsored Projects, FY 1975 -- by Academic Unit
Table B	Funds Received from Federal Agencies for Sponsored Projects, FY 1975
Table C	Total Funds Received from NIH and NSF, FY 1975 -- by Academic Unit
Table D	Funds Received from Non-Federal Agencies for Sponsored Projects, FY 1975
Figure 1	Major Administrative Units Receiving Support, FY 1975
Figure 2	Major Sources of Support Received by UMA, FY 1975

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TABLE A: FUNDS RECEIVED FOR SPONSORED PROJECTS, FY 1975 -- BY ACADEMIC UNIT

	No. Awards	No. Faculty	$ Direct	$ Indirect	$ Total
UNIVERSITY OF MASSACHUSETTS AT AMHERST	*266*	*199*	*7,279,838*	*1,719,687*	*8,981,263*
ADMINISTRATIVE OFFICES	*20*	*10*	*511,962*	*62,231*	*562,431*
Bursar's Office	1	1	1,472	-0-	1,472
Financial Aid	1	1	12,900	-0-	12,900
Continuing Education	2	2	58,150	-0-	58,150
Provost's Office	1	1	95,000	-0-	95,000
Institute for Man & Environment	15	5	344,440	62,231	394,909
COLLEGE OF FOOD & NATURAL RESOURCES	*50*	*40*	*772,425*	*86,693*	*859,208*
Cranberry Experiment Station	1	1	360	-0-	360
Entomology	3	3	75,364	17,212	92,576
Environmental Sciences	4	2	35,000	-0-	35,000
Food & Agricultural Engineering	1	1	12,550	4,420	17,000
Food & Resource Economics	1	1	7,024	3,315	10,399
Food Science & Nutrition	9	6	126,101	27,950	154,051
Forestry & Wildlife Management	12	10	209,702	4,803	214,505
Home Economics	2	2	78,330	-0-	78,330
Hotel, Restaurant & Travel Administration	1	1	67,000	-0-	67,000
Landscape Architecture & Regional Planning	6	3	38,150	-0-	38,150
Plant Pathology	1	1	14,136	7,868	22,004
Suburban Experiment Station	4	3	15,700	-0-	15,700
Veterinary & Animal Sciences	5	5	93,008	21,125	114,133
FACULTY OF HUMANITIES & FINE ARTS	*2*	*2*	*81,804*	*-0-*	*81,804*
English	2	2	81,804	-0-	81,804
FACULTY OF SOCIAL & BEHAVIORAL SCIENCES	*28*	*25*	*767,052*	*178,444*	*944,768*
Anthropology	5	4	119,903	26,902	146,764
Economics	2	2	15,600	1,710	17,310
Political Science	1	1	5,250	3,000	8,250
Psychology	15	15	506,767	120,131	626,179
Sociology	5	3	119,532	26,701	146,265

TABLE A: FUNDS RECEIVED FOR SPONSORED PROJECTS, FY 1975 -- BY ACADEMIC UNIT

	No. Awards	No. Faculty	$ Direct	$ Indirect	$ Total
FACULTY OF NATURAL SCIENCES & MATHEMATICS	*88*	*64*	*2,890,848*	*961,716*	*3,846,615*
Biochemistry	11	7	285,894	114,316	400,255
Botany	5	4	116,384	34,240	150,607
Chemistry	17	10	456,924	177,308	633,800
Computer & Information Science	5	4	205,661	93,663	299,202
Geology & Geography	8	6	161,002	35,290	196,384
Mathematics & Statistics	8	8	69,810	39,432	108,900
Microbiology	5	5	113,747	48,899	162,646
Physics & Astronomy	20	13	1,095,260	284,918	1,376,603
Polymer Science & Engineering	5	3	301,200	92,670	393,900
Zoology	4	4	84,966	40,913	124,318
SCHOOL OF BUSINESS ADMINISTRATION	*3*	*3*	*109,600*	*400*	*110,000*
SCHOOL OF EDUCATION	*17*	*10*	*656,196*	*12,893*	*668,989*
SCHOOL OF ENGINEERING	*34*	*30*	*862,423*	*349,856*	*1,212,371*
Office of the Dean	1	1	3,500	-0-	3,500
Chemical Engineering	7	5	101,090	36,621	137,800
Civil Engineering	7	5	301,374	124,423	425,785
Electrical & Computer Engineering	9	9	216,299	78,586	294,940
Industrial Engineering & Operations Research	3	3	76,610	42,116	118,726
Mechanical & Aerospace Engineering	7	7	163,550	68,110	231,620
GRADUATE SCHOOL	*15*	*8*	*338,004*	*46,511*	*384,543*
Marine Station	1	1	9,450	-0-	9,450
Polymer Research Institute	9	4	129,913	44,851	174,792
Water Resources Research Center	2	1	128,000	1,660	129,660
Other Graduate School	2	2	70,641	-0-	70,641
SCHOOL OF HEALTH SCIENCES	*8*	*7*	*280,474*	*16,460*	*296,934*
Communication Disorders	3	2	55,295	3,544	58,839
Public Health	3	3	58,236	-0-	58,236
Nursing	2	2	166,943	12,916	179,859
SCHOOL OF PHYSICAL EDUCATION	*1*	*1*	*9,050*	*4,550*	*13,600*

TABLE B : FUNDS RECEIVED FROM FEDERAL AGENCIES FOR SPONSORED PROJECTS, FY 1975

AGENCY	NO. AWARDS	$ DIRECT	$ INDIRECT	$ TOTAL
FEDERAL TOTAL	*193*	*5,968,227*	*1,701,344*	*7,651,239*
DEPARTMENT OF HEALTH, EDUCATION & WELFARE	*61*	*1,952,365*	*581,503*	*2,529,212*
Public Health Service	54	1,642,677	545,969	2,183,990
Food & Drug Administration	2	43,101	27,950	71,051
Health Services & Mental Health Administration	15	539,276	144,200	682,721
National Center for Health Services Res. & Dev.	2	57,587	32,542	90,129
National Institute of Mental Health	13	481,689	111,658	592,592
National Institutes of Health	38	1,069,350	378,369	1,443,818
NIH - Research Institutes	36	862,096	366,599	1,224,794
Bureau of Health Manpower Education	2	207,254	11,770	219,024
Division of Education	4	241,316	5,684	247,000
Office of Education	2	170,000	-0-	170,000
Bureau of Education & Training of Handicapped	2	71,316	5,684	77,000
Social & Rehabilitation Service	2	59,322	25,300	84,622
DEPARTMENT OF DEFENSE	*17*	*388,627*	*120,241*	*508,768*
Department of the Army	12	285,764	81,064	366,728
Army - General	1	30,000	-0-	30,000
Army - Natick Development Center	7	135,275	32,701	167,976
Army Research Office - Durham	4	120,489	48,363	168,752
Department of the Navy	2	39,644	20,356	60,000
Department of the Air Force	3	63,219	18,821	82,040

TABLE B : FUNDS RECEIVED FROM FEDERAL AGENCIES FOR SPONSORED PROJECTS, FY 1975

AGENCY	*NO. AWARDS*	*$ DIRECT*	*$ INDIRECT*	*$ TOTAL*
OTHER FEDERAL EXECUTIVE DEPARTMENTS	*30*	*698,138*	*67,328*	*765,366*
Department of Agriculture	9	140,269	-0-	140,269
Agriculture - General	1	42,469	-0-	42,469
Animal & Plant Health Inspection Service	1	25,000	-0-	25,000
Forest Service	2	22,000	-0-	22,000
Northeastern Forest Experiment Station	4	36,300	-0-	36,300
Soil Conservation Service	1	14,500	-0-	14,500
Department of Commerce	2	26,566	11,549	38,115
Department of Housing & Urban Development	1	5,250	3,000	8,250
Department of the Interior	12	338,974	12,170	351,144
Fish & Wildlife Service	4	85,217	4,803	90,020
National Park Service	5	125,757	5,707	131,464
Office of Water Research & Technology	3	128,000	1,660	129,660
Department of Justice	1	12,900	-0-	12,900
Department of Labor	1	1,400	910	2,310
Department of State	3	118,469	9,009	127,378
Department of Transportation	1	54,310	30,690	85,000
FEDERAL INDEPENDENT AGENCIES	*85*	*2,929,097*	*932,272*	*3,847,893*
Energy Research & Development Administration	2	187,945	70,055	258,000
Environmental Protection Agency	2	18,310	-0-	18,310
National Aeronautic & Space Administration	4	85,951	35,161	121,112
National Endowment for the Arts	1	10,000	-0-	10,000
National Endowment for the Humanities	3	90,704	712	91,416
National Science Foundation	73	2,536,187	826,344	3,349,055

TABLE C: TOTAL FUNDS RECEIVED FROM NIH AND NSF, FY 1975 -- BY ACADEMIC UNIT

	NATIONAL INSTITUTES OF HEALTH				NATIONAL SCIENCE FOUNDATION			
	NA	$ DIRECT	$ INDIRECT	$ TOTAL	NA	$ DIRECT	$ INDIRECT	$ TOTAL
UNIVERSITY OF MASSACHUSETTS AT AMHERST	*38*	*1,069,350*	*378,369*	*1,443,818*	*73*	*2,536,187*	*826,344*	*3,349,055*
ADMINISTRATIVE OFFICES	*2*	*24,137*	*13,797*	*36,132*	*2*	*86,193*	*13,767*	*90,000*
Institute for Man & Environment	2	24,137	13,797	36,132	2	86,193	13,767	90,000
COLLEGE OF FOOD & NATURAL RESOURCES	*6*	*105,039*	*46,205*	*151,244*	*1*	*12,550*	*4,420*	*17,000*
Entomology	2	32,895	17,212	50,107				
Food & Agricultural Engineering					1	12,550	4,420	17,000
Plant Pathology	1	14,136	7,868	22,004				
Veterinary & Animal Sciences	3	58,008	21,125	79,133				
FACULTY OF SOCIAL & BEHAVIORAL SCIENCES	*6*	*121,968*	*50,998*	*172,966*	*4*	*110, 435*	*24,538*	*135,000*
Anthropology	2	59,033	19,731	78,764	2	54,970	7,171	62,100
Psychology	3	48,609	23,860	72,469	1	33,038	6,926	40,000
Sociology	1	14,326	7,407	21,733	1	22,427	10,441	32,900
FACULTY OF NATURAL SCIENCES & MATHEMATICS	*20*	*551,051*	*251,049*	*800,011*	*47*	*1,500,832*	*449,021*	*1,946,160*
Biochemistry	7	171,834	67,666	239,500	2	38,460	17,595	56,100
Botany					4	75,604	11,113	86,700
Chemistry	4	138,002	61,526	199,000	12	308,922	115,782	424,800
Computer & Information Science	1	60,502	32,045	92,547	1	39,036	18,386	57,400
Geology & Geography					5	131,168	28,140	159,400
Mathematics & Statistics					8	69,810	39,432	108,900
Microbiology	4	95,747	48,899	144,646				
Physics & Astronomy					13	752,632	175,303	924,360
Polymer Science & Engineering					4	271,200	92,670	363,900
Zoology	4	84,966	40,913	124,318				

TABLE C: TOTAL FUNDS RECEIVED FROM NIH AND NSF, FY 1975 -- BY ACADEMIC UNIT

	NATIONAL INSTITUTES OF HEALTH				NATIONAL SCIENCE FOUNDATION			
	NA	$ DIRECT	$ INDIRECT	$ TOTAL	NA	$ DIRECT	$ INDIRECT	$ TOTAL
SCHOOL OF ENGINEERING					*14*	*560,874*	*258,229*	*819,195*
Chemical Engineering					2	74,590	36,621	111,300
Civil Engineering					5	272,964	124,423	397,375
Electrical & Computer Engineering					4	137,080	59,765	196,900
Mechanical & Aerospace Engineering					3	76,240	37,420	113,620
GRADUATE SCHOOL	*1*	*50,851*	*-0-*	*50,841*	*3*	*79,303*	*26,969*	*106,300*
Polymer Research Institute					2	59,503	26,969	86,500
Other Graduate School	1	50,841	-0-	50,841	1	19,800	-0-	19,800
SCHOOL OF HEALTH SCIENCES	*2*	*207,254*	*11,770*	*219,024*				
Nursing	1	152,125	11,770	163,895				
Public Health	1	55,129	-0-	55,129				
SCHOOL OF PHYSICAL EDUCATION	*1*	*9,050*	*4,550*	*13,600*				

TABLE D: FUNDS RECEIVED FROM NON-FEDERAL AGENCIES FOR SPONSORED PROJECTS, FY 1975

Private Foundations

AGENCY	*TOTAL*
William H. Doner Foundation	$ 48,150
Charles F. Kettering Foundation	16,480
Rockefeller Brothers Foundation	29,322
Russell Sage Foundation (2)	58,460
Gardiner Howland Shaw Foundation	13,500
Alfred P. Sloan Foundation	2,000
7 Awards	*$167,912*

Commonwealth of Massachusetts State Agencies

AGENCY	*TOTAL*
Department of Commerce & Development	$ 67,000
Department of Education (5)	114,670
Department of Natural Resources (2)	20,450
Department of Public Health	7,114
Department of Public Works	31,400
Department of Youth Services	278,055
Executive Office of Environmental Affairs (3)	17,600
Office of the Governor	5,000
Metropolitan District Commission	44,616
16 Awards	*$585,905*

Massachusetts Communities

AGENCY	*TOTAL*
Town of Amherst	$ 650
City of Boston, School Committee	42,613
Holyoke Public Schools	25,000
Town of Monterrey, Planning Board	2,000
4 Awards	*$ 70,263*

TABLE D: FUNDS RECEIVED FROM NON-FEDERAL AGENCIES FOR SPONSORED PROJECTS, FY 1975

Industry

AGENCY	*TOTAL*
Allied Chemical Foundation	$ 5,000
Combustion Engineering, Inc. (Windsor, Ct.)	2,000
W. D. Cowles, Inc. (Amherst, Ma.)	100
Dexter Corporation (Windsor, Ct.)	10,000
Eastman Kodak Company	3,000
Exxon Chemical Company	6,500
Exxon Education Foundation	12,000
Exxon Research & Engineering Company (Florham Park, N. J.)	4,000
Fats & Proteins Research Foundation, Inc. (Des Plaines, Ill.)	10,000
Foster Grant Company, Inc. (Leominster, Ma.)	10,000
GTE Laboratories/Sylvania	2,500
Hooker Chemical Company	20,000
Imasco Food Limited (Montreal, Canada)	10,000
International Business Machines Coproration	10,000
International Copper Research Association, Inc. (New York, N. Y.)	19,000
Kelco Company, Merck & Company (Rahway, N.J.)	17,000
Kendall Company (Lexington, Ma.)	3,000
Kennectott Copper Corporation, Ledgemont Laboratory	10,000
Kimberly-Clark Corporation, Peter J. Schweitzer Division (Lee, Ma.)	3,000
Merck Company Foundation (Rahway, N. J.)	8,000
Merck, Sharpe & Dohme Research Laboratories (Rahway, N. J.)	15,000
Mobile Research & Development Corporation	2,000
New England Power Company	13,745
New England Power Service Company (Westborough, Ma.)	3,000
NOR-AM Agricultural Products, Inc. (Woodstock, Ill.)	200
Northeast Utilities	41,240
Ortho Research Foundation (Raritan, N. J.)	2,445
Polaroid Foundation, Inc.	3,500
Rohm & Haas Company (Philadelphia, Pa.)	3,000
Stepan Chemical Company	10,000
Surgicot, Inc. (Garden City Park, N. Y.)	2,000
Tibbetts Engineering Corporation (New Bedford, Ma.)	360
Uniroyal Foundation	3,000
33 Awards	*$264,590*

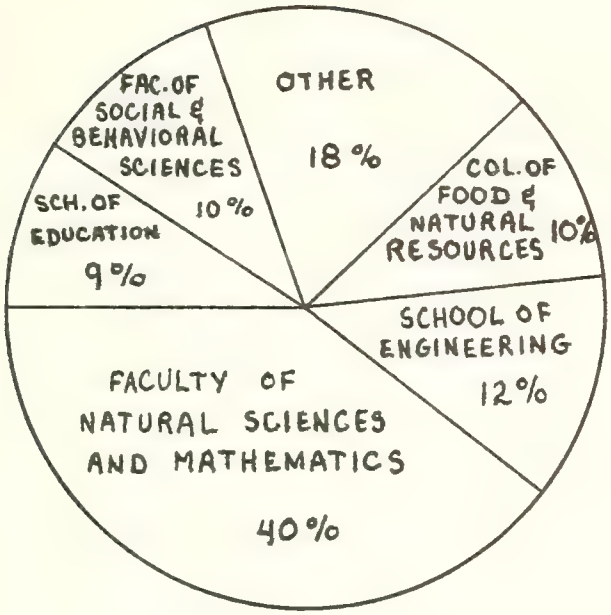
TABLE D: FUNDS RECEIVED FROM NON-FEDERAL AGENCIES FOR SPONSORED PROJECTS, FY 1975

Other Non-Federal

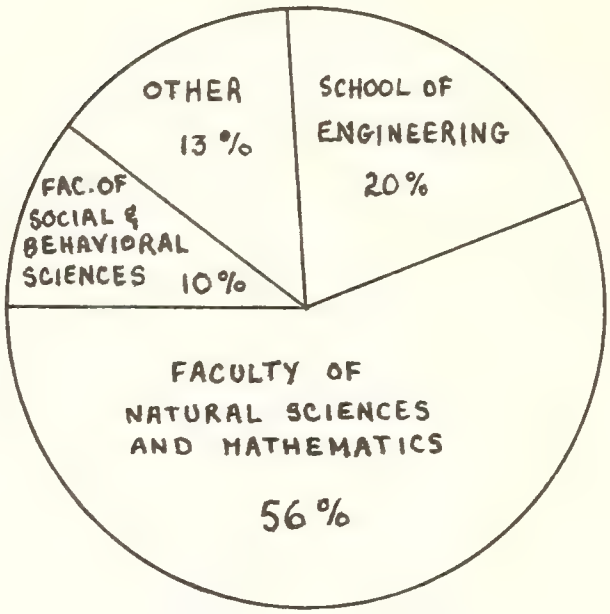
AGENCY		*TOTAL*
American Cancer Society		$ 18,000
Capital Region Education Council (Windsor, Ct.)		3,200
Cooperative Special Services Center (East Granby, Ct.)		4,500
Hampshire Mental Health Association, Inc.		18,604
State of Maine, Department of Educational and Cultural Service		66,151
City of New Haven (Ct.)		10,000
Planning Approaches for Community Environments, Inc. (Cambridge, Ma.)		10,000
Research Corporation		6,000
Resources for the Future, Inc. (Washington, D.C.)		15,000
State University of New York at Stony Brook		70,000
United Nations Educational, Scientific and Children's Organization (UNESCO)		7,500
United Nations World Health Organization		2,000
University of Washington (Seattle, Wash.)		10,399
	13 Awards	*$ 241,354*
TOTAL:	*73 Awards*	*$1,330,024*

FIGURE 1

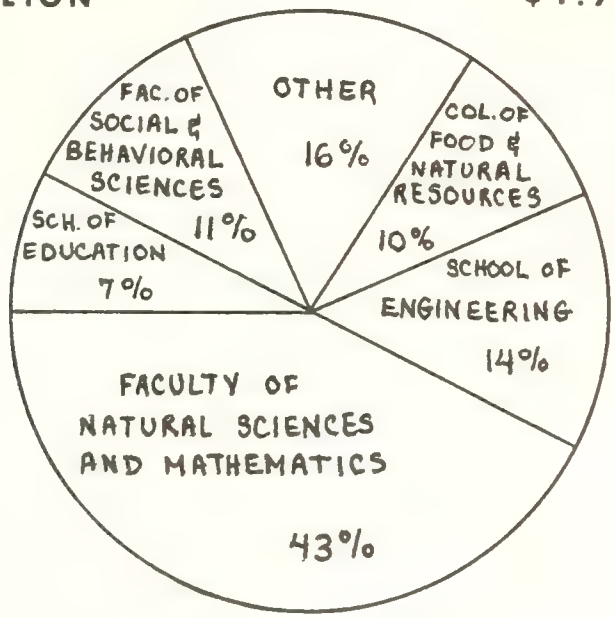
MAJOR ADMINISTRATIVE UNITS RECEIVING SUPPORT, FY 1975



DIRECT COSTS
$7.28 MILLION



INDIRECT COSTS
$1.72 MILLION

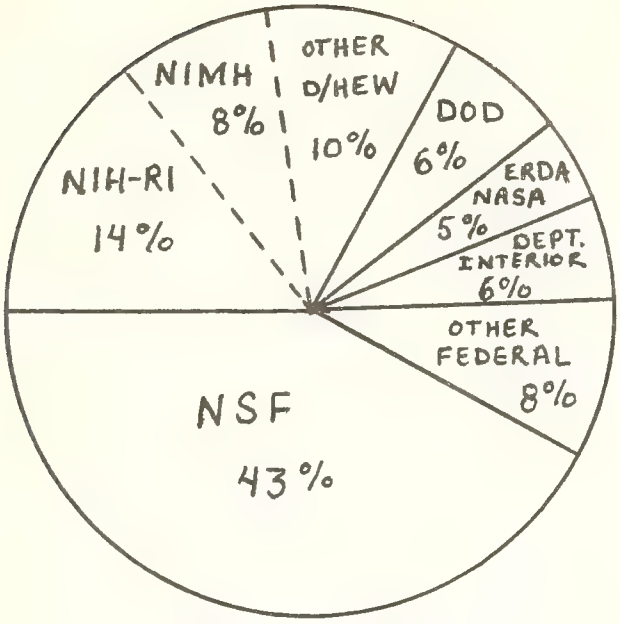


TOTAL COSTS
$8.98 MILLION

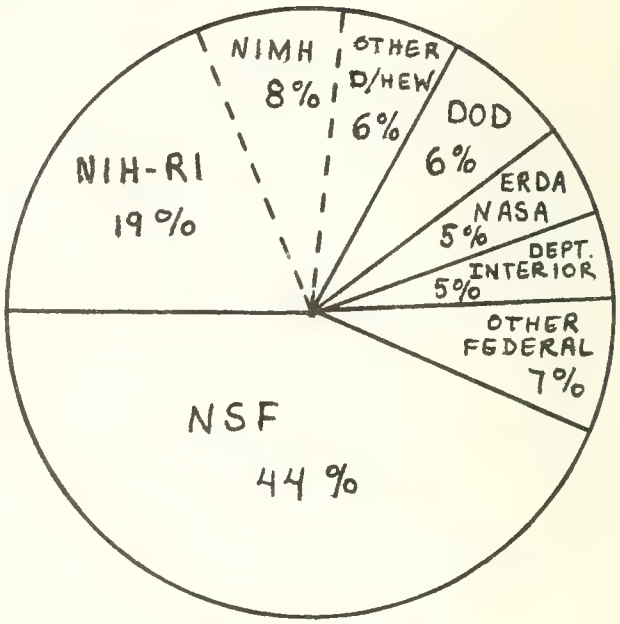
FIGURE 2

MAJOR SOURCES OF SUPPORT RECEIVED BY U.M.A., FY 1975

FEDERAL

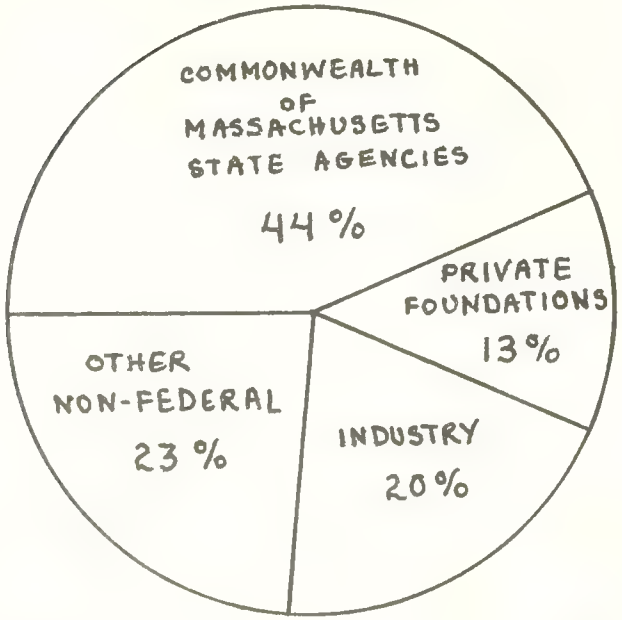


DIRECT COSTS
$5.97 MILLION



TOTAL COSTS
$7.65 MILLION

NON-FEDERAL



TOTAL COSTS $1.33 MILLION

APPENDIX II

Listing of Awards

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Adrian, Donald Dean DiGiano, Francis A. Civil Engineering	750272	U. S. Department of Agriculture, Northeastern Forest Experiment Station 23-591 Modeling the Impact of Liquid Wastes on Groundwater Quality in Forests 3/21/75 - 4/30/77	wastewater-infiltration, groundwater, forest-soil-water-system, modelling, sanitary-landfills, leaching, soil-Northeastern, Princeton-cooperation	- 0 -	20,100	20,100
Adrian, Donald Dean DiGiano, Francis A. Mangarella, P. A. Civil Engineering	750216	Environmental Protection Agency R 803069-01-3 Stormwater Management Model 6/3/74 - 3/14/76	training, environmental-management, water-resources	1,889	23,610	25,499
Anderson, Daniel R. Psychology	750402	National Science Foundation SOC73-09100 A01 Preschool Children's Television Viewing Behavior 6/1/75 - 11/30/76	attending-behavior, program-variables, preschool	6,926	33,038	40,000
Arbib, Michael A. Computer and Information Science	750435	National Institute of Neurological and Communicative Disorders and Stroke 5 R01 NS09755-06 Information Processing in the Brain 5/1/75 - 4/30/76	computer-simulation, automatic-theory, brain-functions	32,045	60,502	92,547
Arbib, Michael A. Manes, Ernest G. Computer and Information Science	740522	National Science Foundation DCR72-03733 A01 Categorical Machine Theory with Applications to Syntax Directed Translation and Control Theory 1/1/75 - 6/30/77	automata-theory, machine-theory, system-theory, translation-syntax-directed, programming-language	18,386	39,036	57,400
Archer, Robert R. Civil Engineering	750752	National Science Foundation ENG74-02428 Some Continuum Mechanical Models for the Study of Plant Growth Phenomenon 3/1/75 - 8/31/76	plant-growth, fiber-structure, continuum-mechanics, stress, tree-use, root-systems, orthotropic-cylinders, wood-grain	22,373	46,139	68,500
Averill, James R. (Clifton, Charles E.) Psychology	740501	National Institute of Mental Health 2 T01 MH11823-06 Graduate Training in Experimental Psychology 7/01/74 - 6/30/75	biopsychology, cognitive-processes, developmental-psychology, educational-psychology, personality, social-psychology, environmental-psychology, graduate-education	4,456	74,361	78,817

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Balintfy, Joseph L. Sinha, P. School of Business Administration	750535	U. S. Army Natick Development Center DAAK03-75-R-0033 Ration System Model to Include Cost Minimization and Various Aspects of Meal Scheduling 3/25/75 - 3/24/76	cost-minimization, meal, scheduling, nutrition, computer-model	- 0 -	30,000	30,000
Barbosa, Pedro Entomology	750209	United States Department of Agriculture 516-15-57 Ecological and Behavioral Evaluation of Brachymeria intermedia, a Gypsy Moth Parasite 3/13/75 - 9/30/77	parasitoids, Gypsy-moth, biological-control	- 0 -	42,469	42,469
Barnes, Ramon M. Chemistry	750237	National Science Foundation HES75-12006 Instructional Scientific Equipment Program 6/1/75 - 5/31/77	instrumental-analysis, electronics-chemists, chemical-education, undergraduate-education, analytical-chemistry, ISEP	- 0 -	20,000	20,000
Barnes, Ramon M. Chemistry	750361	Kennecott Copper Corporation/Ledgemont Laboratory Plasma Chemistry in an Atmospheric Radio-frequency Discharge 4/1/75 - 4/1/76	materials-analysis, high-temperature-plasma, chemical processes	- 0 -	10,000	10,000
Bean, Joan P. Psychology	740777	National Institute of Child Health and Human Development 5 R01 HD06457-03 Imposed and Induced Learning Activities in Children 9/1/74 - 8/31/75	learning, cognitive-processes, stimulus-modes, linguistic-categories, psycholinguistics, socio-linguistics	8,325	14,226	22,551
Bemak, Fred Upward Bound: Provost's Office	750602	U. S. Office of Education 310-75-00040A(492) Project Upward Bound 6/15/75 - 6/29/76	self-concept, reading-skills, science-skills, English-skills, mathematics-skills	- 0 -	95,000	95,000
Berger, Bernard B. Water Resources Research Center	750568	University of Rhode Island and Office of Water Research and Technology Title II Water Resource Research Project 2/1/74 - 6/30/76	water-research, cooperative-agreement	8,125	16,875	25,000
Berger, Bernard B. Water Resources Research Center	750605	U. S. Department of the Interior, Office of Water Research and Technology 14-31-0001-5261 Evaluation of Research Needs to Maximize Efficiency in Conservation by Water Reclamation 6/1/75 - 9/30/75	solids-separation, reclamation, goals	812	8,900	9,712
Berger, Barnard P.	740593	[See Addendum]				

	W.R. No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
[illegible]	[illegible]	U. S. Department of the Interior, Office of Water Research and Technology 14-31-0001-5264 A Plan to Improve the Water Resources Science Information Center Program 6/1/75 - 11/30/75	information-systems, abstracting	848	9,100	9,948
[illegible]	[illegible]	National Science Foundation GB[illegible] Morphology and Phylogeny of Ferns 6/1/75 - 11/30/76	ferns, hymenophyllaceae, leaf-ontogeny, stromatopteris-embryology, ovule-ontogeny, New Caledonia	- 0 -	8,734	8,700
[illegible]	[illegible]	National Institutes of Child Health and Human Development 1 po1 HD06788-04 Neural-endocrine Control of the Oviduct 6/30/75 - 6/31/76	oviduct-transport, gamete-transport, neuroendocrinology, adrenergic-innervation, oviduct-muscle-fibers	8,450	21,900	30,350
[illegible]	[illegible]	U. S. Department of Agriculture, Forest Service 23-768/16 [illegible] 5-2 An Annotated Bibliography of Marketing Principles with Application to Environmental Interpretation 1/1/75 - 12/31/75	environment, reference, forestry	- 0 -	7,000	7,000
[illegible]	[illegible]	National Science Foundation GD[illegible] Past Glacial Activity in the High Arctic 5/15/75 - 5/30/77	glacial-history, arctic-geology, ice-sheets, climatic-fluctuation, Greenland	2,700	39,100	41,800
[illegible]	[illegible]	National Heart and Lung Institute 1 R01 HL17578-01 Structural Studies of the Human Erythrocyte Membrane 6/30/75 - 6/30/76	erythrocytes, membranes, blood-proteins, structural-transitions, spectrin, thermal-gel-analysis, human-blood-diseases	15,244	42,752	57,996
Brandts, John F. Chemistry	[illegible]	National Institute of General Medical Sciences 2 R01 GM11071-15 Free Energy of Folding of Globular Proteins 5/1/75 - 4/30/76	kinetic-studies, protein-unfolding, NMR, stopped-flow-spectrophotometry, model-compounds	21,417	45,850	67,267
Brandts, John F. Chemistry	750345	National Science Foundation BMS74-21665 Structural Studies of the Human Erythrocyte Membrane 2/1/75 - 7/31/77	membrane-structures, erythrocytes, spectrin, calorimetry, thermal-gel-analysis, protein-unfolding, transition-temperatures, myasin	13,959	36,041	50,000

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Brandts, John F. Chemistry	750345-S1	National Science Foundation BMS74-21665-A01 Structural Studies of the Human Erythrocyte Membrane 2/1/75 - 7/31/77	membrane-structures, erythrocytes, spectrin, calorimetry, thermal-gel-analysis, protein-unfolding, transition-temperatures, myasin	1,611	2,478	4,100
Brehm, John L. Cook, Leroy F. Physics and Astronomy	750001	National Science Foundation MPS73-05071 A01 Elementary Particle Theory 10/1/74 - 3/31/76	nuclear-physics, chiral-symmetry, inelastic-unitarity	17,368	36,200	50,000
Burgin, Ruth W. University Year for Action - Provost's Office	740647	ACTION 447/1303/5-02 University Year for ACTION Operation 6/30/74 - 6/30/75	volunteers, community-participation, under-graduate-education	- 0 -	52,500	52,500
Camerino, Pat W. Eachus, H. T. Graduate School	750077	National Institutes of Health, Division of Research Resources 5 S05 RR07048-10 Biomedical Sciences Support Grant 6/1/75 - 5/31/76	biomedical-sciences, institutional-award	- 0 -	50,841	50,841
Canale-Parola, Ercole Microbiology	740549	National Institute of Allergy and Infectious Diseases 1 R01 AI12482-01 Spirochetes Indigenous to Humans 5/1/75 - 4/30/76	spirochetes, human-microorganisms, microflora-indigenous, infectious-process,	18,297	36,450	54,747
Carpino, Louis A. Chemistry	740622	National Institute of General Medical Sciences 5 R01 GM09760-10 New Amino-Protecting Groups 9/1/74 - 8/31/75	peptide-synthesis, polymer-organic, reagents, amino-acid-synthesis	11,700	21,100	32,772
Cattani, Eduardo H. Hoffman, David A. Kaplan, Aroldo G. Mathematics and Statistics	750143	National Science Foundation MPS75-07470 Differential Geometry and Analysis on Riemannian Manifolds and Lie Groups 6/1/75 - 11/30/76	hodge-structure, harmonic-forms, isoperimetric-inequalities	6,632	12,304	18,900
Chamberlayne, Donald W. Booth, David A. Political Science	750170	U. S. Department of Housing and Urban Development H-2312 Politics of Community Development Planning in Holyoke, MA: 1957-74 3/1/75 - 2/28/76	community-development, planning, local-government	3,000	5,250	8,250

		Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
[illegible]	[illegible]	National Science Foundation MPS[illegible]-22057 National Science Foundation Graduate Fellowship Support 9/1/75 - 9/30/80	Corley, Larry S.-Chemistry, Portrikus, Catherine J.-Microbiology, Stillings, Justine T.-Linguistics	- 0 -	19,800	19,800
[illegible]	[illegible]	National Institute of Mental Health 5 R01 MH[illegible]-03 Decoding Information from Memory 9/1/75 - 6/30/76	memory, information decoding, reaction-time, target-size, memory-translation, scanning-function, recognition	8,905	18,150	26,300
[illegible]	[illegible]	National Institute of Mental Health 1 F01 MH[illegible]-01 Doctoral Fellowship 7/12/75 - 7/11/75	graduate-fellowship, sociological-anthropological-research	- 0 -	5,900	5,900
[illegible]	[illegible]	Massachusetts Department of Commerce and Development Economic Impact of Tourism on the Commonwealth of Massachusetts 1/1/75 - 12/31/75	tourism, Massachusetts-industry, economitric-models, hotels, motels, camp-grounds, vacation-tourism	- 0 -	67,000	67,000
[illegible]	[illegible]	National Institute of Allergy and Infectious Diseases 5 R01 AI[illegible]-03 Cultivation of Virulent Treponema Pallidum 2/1/75 - 1/31/76	syphilis, treponema-pallidum, spirochaetes, oxygen-metabolism, electron-transport	18,005	37,597	55,602
[illegible]	[illegible]	[illegible] Laboratories/Syracuse Effects of Night Lighting on Crop Production 3/1/75 - 2/28/76	crop-production, night-lighting	- 0 -	2,500	2,500
[illegible]	740224	National Endowment for the Humanities RO-20505-74-562 A Field Investigation of Aspects of Serbian Traditional Oral Expression 7/1/74 - 8/31/76	Serbian-culture, socio-linguistics, cultural-anthropology, oral-tradition, epic-songs	- 0 -	36,437	36,437
[illegible]	750095	Tibbetts Engineering Corp. (New Bedford, MA) The Amounts of PCB Residues in Sediment samples 10/7/74 - 10/6/75	water-quality, arocholor-1254	- 0 -	360	360
[illegible]	750184	National Science Foundation MPS74-11668-A01 Measurements of the Time Variability of Extragalactic Radio Sources 4/15/75 - 9/30/76	astronomy, quasi-stiller-objects, non-thermal-radio-sources	5,960	20,600	26,560

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
DiNardi, Salvatore R. Health Sciences	740431	National Institutes of Health, Bureau of Health Manpower Education 1 A04 AH00794-01 Environmental Health Services Administration 9/1/74 - 5/31/76	allied-health, environmental-health-service, undergraduate-education, curriculum-development, health-service-administration	- 0 -	55,129	55,129
Dixon, John R. Mechanical and Aerospace Engineering	750003	Exxon Education Foundation Practice-Directed Engineering Education and Engineering Service to Industry and Community 7/24/74 - 7/23/75	engineering-education, undergraduate-education, client-orientation, impact	- 0 -	12,000	12,000
* Dodge, Wendell E. Mass. Coop. Wildlife Research Unit	750533	U. S. Department of the Interior, Fish & Wildlife Service 14-16-0008-1186 Colonial Nesting Sea Bird Survey 6/1/75 - 10/31/75	population-survey, fowl, nesting	- 0 -	58,500	58,500
Dye, Larry L. School of Education	750023	Massachusetts Department of Youth Services Advocates for the Development of Human Potential-Phase III 9/1/74 - 6/30/75	youth-advocates, delinquent-intervention, adolescent-behavior	- 0 -	278,055	278,055
Dye, Larry L. School of Education	750685	Gardiner Howland Shaw Foundation Model Education Program-Shaw Student-Inmate Program 6/16/75 - 6/15/76	penal-institutions, corrections, inmates	1,000	12,500	13,500
Dye, Larry L. Gluckstern, N. School of Education	750756	Massachusetts Department of Education MA(B)4096 Pittsfield Basic Education 8/15/74 - 12/30/74	model-education-program, Berkshire-County-House-of-Correction, learning-disabilities, basic-educational-skills	- 0 -	4,100	4,100
Dye, Larry L. Gluckstern, N. School of Education	750757	Massachusetts Department of Education MA(B)4095 Belchertown Pre-Vocational Health Occupations 8/15/74 - 12/30/74	model-education-program, Berkshire-County-House-of-Correction, occupational-vocational-training	- 0 -	3,240	3,240
Edington, Dee W. Exercise Science	740740	National Heart and Lung Institute 1 R01 HL17939-01 Heart Mitochondria in Aging and Trained Male Rats 6/1/75 - 5/31/76	exercise, aging, physical-training, mitochondria, heart-tissue, energy-metabolism	4,550	9,050	13,600
*Dixon, John R.	750032	[See Addendum]				

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Ehrenberg, Ronald G. Oaxaca, Ronald Economics	[illegible]	U. S. Department of Labor L-74-49 National Longitudinal Survey on Unemployment Compensation Insurance Benefits 3/15/75 - 8/30/75	unemployment-compensation, insurance-benefits, earning-levels, employment, cost-benefit-ratios, job-search, unemployment-duration, labor-study, national-longitudinal-survey	910	1,400	2,310
Eldridge, John W. Chemical Engineering	750589	Rohm and Haas Company, Philadelphia, PA Chemical Engineering and Polymer Science 4/15/75 - 4/14/76	chemical-engineering, polymer-science, department-support	- 0 -	3,000	3,000
Engelsberg, Stanley Physics and Astronomy	740408	National Science Foundation DMR74-18030 Itinerant Ferromagnets Above Curie Temperature 9/1/74 - 2/28/77	ferromagnetic-state, paramagnetic-continuum, neutron-scattering, magons, Curie-temperature	15,909	28,475	44,400
Epstein, Seymour Psychology	740682	National Institute of Mental Health 5 R01 MH01293-19 The Measurement of Drive and Conflict 9/1/74 - 8/31/75	anxiety, arousal, avoidance, incentives, self-esteem	25,371	44,858	70,229
Ertel, Kenneth School of Education	740438	Massachusetts Department of Education EPDA-1675 Occupational Education Teacher Resource Center 7/1/74 - 6/30/75	occupational-education, curriculum-materials, Fitchburg-State, Westfield-State, cooperative-education, secondary-education	- 0 -	29,000	29,000
Ertel, Madge Institute for Man and Environment	750224	Metropolitan District Commission Proposed Diversion of Connecticut River into Quabbin Reservoir 11/21/74 - 11/20/75	environmental-impact, Connecticut River, public-service	4,260	40,356	44,616
Evans, David A. Stumbo, Charles R. Food Science and Nutrition	750707	Food and Drug Administration 223-73-2198 Thermal Process Evaluation 6/29/75 - 6/28/76	food, consumer, canning, botulism	24,050	31,950	56,000
Evans, David R. School of Education	750262	United Nations Educational, Scientific and Cultural Organization (UNESCO) In-Service and Pre-Service Teacher Training 11/27/74 - 11/26/75	developing, countries, education-international, education-media-training, Jamaica, Africa-education	- 0 -	7,500	7,500

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Evans, David R. School of Education	750576	U. S. Department of State, Agency for International Development Agreement #75-7 Non-Formal Education in the Ecuador Project 5/1/75 - 3/31/76	international-education, literacy, arithmetic	9,009	112,591	121,500
Evans, David R. Etling, A. School of Education	750578	U. S. Department of State, Agency for International Development AID/CSD-3221 Workshop on Nonformal Education 5/5/75 - 6/6/75	international-education, nonformal-education, workshop	- 0 -	5,216	5,216
Fabos, Julius G. Landscape Architecture and Regional Planning	740691	U. S. Department of the Interior, National Park Service PX-1600/5/0160 Special Environmental Impact Factors 12/26/74 - 12/26/75	land-use-planning, land-water-assessment, urban-planning, Southeastern-New-England, wetlands, resource-evaluation, modeling	- 0 -	8,000	8,000
Fabos, Julius G. Landscape Architecture and Regional Planning	750730	U. S. Department of Agriculture, Northeastern Forest Experiment Station 23-668 Environmental Forestry Problems Related to Landscape and Recreation in Densely Populated Areas 6/9/75 - 6/30/76	forestry, urban-forestry, land-use-planning	- 0 -	3,000	3,000
Fagerson, Irving S. Food Science and Nutrition	750758	Stepan Chemical Company The Formation of Flavors and Flavor Systems By Thermal Reactions 10/1/74 - 9/30/75	chemical-composition-of-food, food-quality, food-acceptability	- 0 -	10,000	10,000
Feder, William A. Suburban Experiment Station	750588	New England Power Service Company Urban/Suburban Environmental Stresses on Woody Plant Culture 4/21/75 - 4/20/76	plant-growth, environmental-stress	- 0 -	3,000	3,000
Fellows, Gordon W. Suburban Experiment Station	750759	Massachusetts Executive Office of Environmental Affairs Status and Future Direction of Pesticide Regulation in Massachusetts 6/1/74 - 11/30/74	pesticide-regulation	- 0 -	3,000	3,000
Fellows, Gordon W. Suburban Experiment Station	750760	Massachusetts Department of Agriculture Status and Future Direction of Pesticide Regulation in Massachusetts 6/1/74 - 11/30/74	pesticide-regulation	- 0 -	4,875	4,875

Investigator Co-Investigator Department	OCP No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Fellows, Gordon W. Suburban Experiment Station	750761	Massachusetts Department of Public Health, Pesticide Board Status and Future Direction of Pesticide Regulation in Massachusetts 6/28/74 - 11/30/74	pesticide-regulation, state-plan-for-the-E.P.A., Federal-insecticide-fungicide-rodenticide-act	- 0 -	1,144	1,144
Fenz, Tsuan Hua Civil Engineering	750199	National Science Foundation OIP75-10061 Sludge Stabilization by High-Dosage Chlorination 6/1/75 - 11/30/77	sludge, water-quality, purifax	- 0 -	6,600	6,600
Field, Barry C. Food and Resource Economics	750482	University of Washington at Seattle 120677 Growing Natural Resource Scarcity 5/1/75 - 12/31/75	resource-scarcity, translog-functions, modelling, NSF-subcontract	3,315	7,024	10,399
Fisher, Burnell C. Forestry and Wildlife Management	750731	U. S. Department of Agriculture, Northeastern Forest Experiment Station 23-661 Evaluation of Video Tape for Simulating Urban Forest Environments 6/10/75 - 9/1/76	aesthetics, urban-studies, audio-visual	- 0 -	5,000	5,000
Ford, Norman C. Physics Karasz, Frank E. Polymer Science and Engineering	740474	National Science Foundation BMS74-19341 Laser Light Scattering from Synthetic and Biological Macromolecules 9/1/74 - 2/28/77	macromolecules-biological, conformation-changes, transfer-RNA, ribosomes, solvent-effects, spectroscopy, light-scattering	14,430	32,600	47,000
Ford, Norman C. Hallock, Robert B. Langley, Kenneth H. Physics and Astronomy	750762	National Science Foundation 2 R01 GM19351-04 Light Scattering from Solid ^{3}He, ^{4}He and ^{3}He - ^{4}He Mixtures 6/1/75 - 11/30/76	helium-solid, light-scattering, solid-state, temperature-studies, ground-state, vacancy-wave, cryogenics, quantum-crystals, tunelling-motion	7,800	22,200	30,000
Fournier, Maurille J. Biochemistry	750770	National Institute of General Medical Sciences Biosynthesis of Transfer Ribonucleic Acid 6/1/75 - 5/31/76	biosynthesis, t-RNA, E. Coli, gene-clusters, modified-nucleosides	14,954	35,897	50,851
Francis, F. J. Levin, Robert E. Food Science and Nutrition	750494	KELCO Co., Mercke Co. Microbiological Fermentation for the Production of Thickening Agents 1/21/75 - 1/20/76	utilization, storage, harvests	- 0 -	17,000	17,000

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Francis, Frederick Clydesdale, F. M. Food Science and Nutrition	750764	U. S. Army Natick Laboratory DAAK03-74-G-0003 A Study of the Psychophysical Relationships Between Color and Flavor in Food 9/1/74 - 8/31/76	objective-food-color, subjective-responses-to-food, apparent-color, texture, consumer-acceptability, military-feeding-systems	- 0 -	14,000	14,000
Franks, Lewis E. Electrical and Computer Engineering	740706	Air Force Office of Scientific Research AFOSR-71-2111 Optimum Filtering of Cyclostationary Processes Resulting from Scanning or Sampling of Communication and Control Signals 9/17/74 - 9/16/75	synchronization-timing-recovery, communication-signals, cyclostationary-processes, signal-processors	8,860	16,830	25,690
Friedmann, Arnold Rausch, Harold Institute for Man and Environment	740768	Rehabilitation Services Administration 51-P-05374/1-01 A1 Effects of Living Environment on the Mentally Retarded 6/30/74 - 6/29/75	living-environment, Belchertown-State-School, mentally-retarded, room-design, behavior-designing, environmental-psychology, institutionali-zation, social-development	10,062	22,530	32,592
Friedman, Arnold Rausch, Harold Institute for Man and Environment	750491	Rehabilitation Services Administration 51-P-05374/1-02 Effects of Living Environment on the Mentally Retarded 6/30/75 - 6/29/76	critical-incidents, transition, environmental-design	24,700	48,197	72,897
Fuller, R. Clinton Biochemistry	750215	National Science Foundation BMS75-10693 Energy Transduction in a Unique Photochemical Membrane 6/15/75 - 11/30/76	photosynthesis, green-bacteria, energy-transduction	8,255	17,800	26,100
Gawienowski, Anthony M. Biochemistry	740652	U. S. Army Research Office (Durham) DAHC04-75-G-0073 Chemical Isolation and Identification of Pheromones in the Rat 12/1/74 - 11/30/75	pheromones, rat-attractants, sex-odor, olfactory-signals	9,685	25,200	34,885
Gawienowski, Anthony M. Biochemistry	740652-S1	U. S. Army Research Office (Durham) DAHC00-75-G-0073 Chemical Isolation and Identification of Pheromones in the Rat (12/1/75 - 11/30/77)	pheromones, rat-attractants, sex-odor, olfactory-signals	19,370	50,400	69,770

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Feman, Donald Horowitz, Joseph Mathematics and Statistics	750149	National Science Foundation MPS72-04813 A03 Flows and Random Measures 6/1/75 - 11/30/76	dynamical-system, flow, local-time, passage-law, Palm-measure, polar-sets, recurrence	5,806	10,294	15,800
Gentile, Adrian G. Suburban Experiment Station	76A061	NOR-AM Agriculture Products, Inc. Control of Insects in Sweet Corn 5/23/75 - 5/22/76	adjuvants, pesticides, biocontrol-agents	- 0 -	200	200
Gibson, Walker English	750132	National Endowment for the Humanities FS-22264-75-169 Writing in the First College Years 1/1/75 - 9/30/75	writing, student-composition, seminar, training	- 0 -	45,367	45,367
Gillio, Richard J. Sadowski, Randall P. Industrial Engineering	750661	U. S. Army Natick Development Center DAAG17-75-C-0017 Services to Develop an Algorithm for Scheduling Employees and New Techniques for Establishing Manpower Requirements for Food Service Operations 6/24/75 - 6/23/76	food-service, computer-systems, manpower, operations	9,574	18,495	28,069
Gleit, Alan Zinn, Joel Mathematics and Statistics	750140	National Science Foundation MPS75-07605 Admissible and Singular Translates of Measures on Banach Spaces 6/1/75 - 11/30/76	admissible-translates, measures-on-Banach-spaces	5,095	9,205	14,300
Gluck, Ethan Landscape Architecture and Regional Planning	750582	Town of Amherst (Mass.) Cooperative Agreement 2/10/75 - 2/9/76	bikeways, design	- 0 -	650	650
Gluck, Ethan Landscape Architecture and Regional Planning	750754	Planning Board, Town of Monterey, (Mass.) Land Capability Inventory for the Town of Monterey, MA 2/10/75 - 2/9/76	land-inventory, Monterey, Mass., town-planning	- 0 -	2,000	2,000
Godfrey, Paul J. Botany Niedoroda, Alan W. Geology	750246	U. S. Department of Interior, National Park Service CX-1600-5-0001 The Ecological and Geomorphic Effects of Off-Road Vehicles on Cape Cod National Seashore 7/1/74 - 9/30/75	Cape-Cod-National-Seashore, beach-vehicles, ecology-beach, geology-beach, dunes	- 0 -	86,000	86,000
Golann, Stuart E. Psychology	740513	National Institute of Mental Health 1 T01 MH13811-01 Interdisciplinary Seminar on Deviance 7/1/74 - 6/30/75	behavior-deviant, mental-health, law, social-policy, community-tolerance, legal-studies, graduate-education, decriminalization, seminar, January-break	2,777	34,713	37,490

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Gold, Richard M. Psychology	740602	National Institute of Mental Health 7 R01 MH26251-01 CNS Regulation of Eating and Drinking Behavior 6/1/74 - 5/31/75	eating-behavior, drinking-behavior, hypothalamus, obesity, appetite-regulation, limbic-system, midbrain-control, neuro-anatomy, neuroendoctrinology	7,819	19,000	26,819
Gold, Richard M. Wade, G. N. Pellett, P. L. Psychology	750080	National Institute of Mental Health 2 R01 MH26251-02 CNS Regulation of Eating and Drinking Behavior 6/1/75 - 5/31/76	appetite, obesity	10,311	23,000	33,311
Goldenberg, H. Mark Physics and Astronomy	750276	National Science Foundation DES71-05001 A04 Measurement of the Oblateness of the Sun 3/1/71 - 9/30/75	general-relativity, photosphere, solar-oblateness	985	1,515	2,500
Goss, William P. Shuldiner, Paul W. Mechanical and Aerospace Engineering	750122	U. S. Department of Transportation DOT-05-50227 Regional Transportation Systems to Meet the Special Needs of Handicapped Individuals 6/26/75 - 9/30/76	transportation, special-education, handicapped-people	30,690	54,310	85,000
Green, Mary E. Vaznaian, Helen Home Economics	740403	Massachusetts Department of Education CH-2175 Administrative Preparation In Home Economics 7/1/74 - 6/30/75	career-education, vocational-education, home-economics-education, intern-training, graduate-education	- 0 -	18,330	18,330
Gunner, Haim B. Environmental Sciences	750487	Merck, Sharp & Dohme Research Laboratories Behavior and Interrelationships of Gypsy Moth, Parasites and Predators 3/1/75 - 2/29/76	parasites, fungi	- 0 -	15,000	15,000
Hagedorn, Henry H. Entomology	750226	National Institute of Allergy and Infectious Diseases 5 R01 AI11909-02 Control of Reproduction in the Mosquito 2/1/75 - 1/31/76	mosquito, ovarian-hormone, vitellogenin	8,762	16,236	24,998
Haggerty, Stephen E. Morse, S. A. Geology/Geography	730093-S1	National Science Foundation DES73-00181 A01 Automated Electron Microprobe Facility for Research and Education in Geochemistry 6/15/74 - 11/30/75	geochemistry, electron-microprobe, matching-funds, Five-Colleges, undergraduate-education, graduate-education	- 0 -	25,000	25,000

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Haggerty, Stephen E. Geology/ Geography	750101	National Aeronautics and Space Administration NGL 22-010-089 Geochemistry of Opaque Minerals in Lunar Samples 2/1/75 - 1/31/77	lunar-samples, subsolidus-reduction, magnetomineralogy, selenomagnetism, petrogenesis, mineralogy-opaque, geochemistry, Appollo-samples, mineral-oxides	- 0 -	6,834	6,834
Halitsky, James Lunderville, Dennis K. Civil Engineering	750676	Environmental Protection Agency U910530-01-0 Fellowship Support in Environmental Protection 5/15/75 - 5/14/76	environmental-protection	- 0 -	8,310	8,310
Hallock, Robert B. Physics and Astronomy	750176	National Science Foundation DMR75-08630 X-Ray Scattering from Quantum Fluids and Gases 6/1/75 - 11/30/76	X-ray-scattering, quantum-fluids, helium	3,770	16,550	20,300
Hallock, Robert B. Physics and Astronomy	750766	National Science Foundation DMR72-03138-A02 Dynamics of Superfluid Flow in Both Bulk and Films 6/1/75 - 11/30/76	vartex-rings, superfluidity, helium, film-flow, adiabatic-processes, oscillations, thermal-studies, flow-properties	5,200	16,800	22,000
Halpern, Joel M. Anthropology	740364	National Institute of Child Health & Human Development 1 R01 HD08883-01 Extended Family Households and Demographic Transition 10/1/74 - 9/39/75	family-household-structure, European-demography, fertility-rates, Latvia, Finland, rural-society, industrialization	7,025	34,200	41,225
Halpern, Joel M. Anthropology	740530	National Science Foundation SOC74-19859 The Demographic Significance of Extended Family Households 9/1/74 - 2/28/77	family-structures, households, European-demography, urbanization, industrialization, kinship-fertility-rates, extended-family, Balkans, Baltic-area	7,171	51,954	59,100
Hayes, David R. Mathematics and Statistics	750150	National Science Foundation MPS75-07494 Complex Multiplications in Global Function Fields 6/1/75 - 11/30/76	complex-multiplication, global-function-field	4,144	6,875	11,000

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Heronemus, William E. Civil Engineering	740094	National Science Foundation AER71-01920 A03 Technical and Economic Feasibility of the Ocean Thermal Differences Process as a Solar-Driven Energy Process with Potential for Significant Impact on the U. S. Energy Market 6/15/72 - 6/30/75	energy-production, ocean-engineering, solar-power, energy-economics, thermal-differences, Florida-Institute, interdisciplinary-research, Gulf-Stream	- 0 -	2,250	2,250
Heronemus, William E. Civil Engineering	750234	National Science Foundation AER71-01920 A04 Technical and Economic Feasibility of the Ocean Thermal Differences Process 1/1/75 - 6/30/76	energy-sources, thermal-power ocean-systems	60,125	129,900	190.025
Heronemus, William E. Civil Engineering	750347	National Science Foundation AER75-00603 Investigation of the Feasibility of Using Windpower for Space Heating in Colder Climates 3/15/75 - 8/31/76	wind-furnace, wind-generators, energy-sources	41,925	88,075	130,000
Hixson, Stephen S. Chemistry	740467	National Science Foundation BMS74-19489 Photochemical Methods for Labeling Active Sites of Enzymes 10/1/74 - 3/31/77	enzyme-active-sites, photochemistry, amino-acid-labeling, enzyme-structure, binding-sites, pepsin, Mount-Holyoke-College	11,180	25,800	37,000
Holmes, Robert R. Chemistry	740320	National Institute of General Medical Sciences 1 R01 GM21466-01 Phosphate Model for Ribonuclease Action 11/1/74 - 10/31/75	ribonuclease-action, phosphate-coordination-compounds, enzyme-models, coordination-chemistry, pentacoordination	13,165	28,300	41,465
Holmes, Robert R. Chemistry	750089	National Science Foundation MPS74-11496 Nonrigid Pentacoordinate Phosphorous Compounds: A Model for Enzymic Hydrolysis 12/1/74 - 5/31/76	enzymic-hydrolysis	10,183	19,867	30,100
Holmes, Robert R. Chemistry	750089-S1	National Science Foundation MPS74-11496 A01 Nonrigid Pentacoordinate Phosphorous Compunds: A Model for Enzymic Hydrolysis 4/10/75 - 5/31/76	enzymic-hydrolysis	- 0 -	36,200	36,200
Horvay, Gabriel Mechanical & Aerospace Engineering	750476	Combustion Engineering, Inc. (Windsor, Ct.) Mechanical Design Methods 2/24/75 - 12/31/75	structural-analysis, engineering	- 0 -	2,000	2,000

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Howe, George R. Veterinary and Animal Sciences	750259	National Institute of Child Health and Human Development 5 R01 HD04189-06 Physiology of the Mammalian Oviduct 3/1/75 - 2/29/76	oviduct-physiology, autonomic-nervous-system, ovarian-hormones, sperm-transport, egg-transport	5,070	14,288	19,358
Huguenin, G. Richard Taylor, J. H. Physics and Astronomy	750041	National Science Foundation MPS75-03377 Meter Wave Radio Astronomy Program 1/1/75 - 6/30/76	radio-astronomy-NRAO, NAIC, FCRAO, pulsar-emission, neutron-stars, interstellar-medium, Five-College, meter-waves	32,249	117,753	150,000
Huguenin, G. Richard Physics and Astronomy	750066	National Science Foundation MPS75-04949-A02 Millimeter Wave Telescope 1/15/75 - 6/30/76	radio-astronomy	16,614	246,212	262,800
Huguenin, G. Richard Physics and Astronomy	750066-S1	National Science Foundation MPS73-04949-A01 Millimeter Wave Telescope 1/15/75 - 6/30/76	radio-astronomy	- 0 -	50,000	50,000
Huguenin, G. Richard Physics and Astronomy	750654	State University of New York (SUNY) at Stony Brook 9307-SU Construction of a 1024 Channell Auto-correlation Receiver 1/23/75 - 1/22/76	radio-astronomy, telescope, construction	- 0 -	70,000	70,000
Huguenin, John Zahradnik, John Mechanican and Aerospace Engineering	750334	International Copper Research Association, Inc., Uses of Copper in Marine Aquaculture 1/1/75 - 12/31/75	aquaculture-systems, copper-alloys, food-production	- 0 -	19,000	19,000
Irvine, William Physics and Astronomy	740550	National Aeronautics and Space Administration NGL 22-010-023, S.7 Studies of Radiative Transfer in Planetary Atmospheres 9/1/74 - 8/31/75	planetary-atmospheres, Saturn-rings, Jupiter-clouds, Venus-clouds, Mercury-surface, albedos, radiative-transfer	15,434	30,694	46,128
Jarmon, Harold Lieberman, Alan J. Psychology	750554	Hampshire Mental Health Association, Inc. LIFT (Learning Intervention Family Team) 1/17/75 - 6/30/75	family-therapy, outreach	- 0 -	18,604	18,604

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Johnson, James Forestry and Wildlife Management	750769	Massachusetts Department of Natural Resources, Marine Fisheries Biological Assessment of the Alewife Population of the Parker River, Massachusetts 7/1/74 - 6/30/75	anadromous-fish-act, Parker-River, Newbury, Georgetown, Essex-County	- 0 -	11,000	11,000
Johnson, Lawrence, A. Berestka, Maryann L. School of Business Administration	76A011	U. S. Office of Education G007507281 Program ABLE - Business Upgrading Program for Disadvantage Youth 6/30/75 - 6/29/76	minorities, graduate-education, remediation	- 0 -	75,000	75,000
Jordan, Daniel C. School of Education	750269	Cooperative Special Services Center (E. Granby, Ct.) Development Specialist and ANISA Model 9/1/74 - 6/30/75	early-childhood-education, evaluation, training	- 0 -	4,500	4,500
Jordan, Daniel C. School of Education	750768	State of Maine, Department of Educational and Cultural Service 29-74-0403-1 Pre-Service and In-Service Training for Education Personnel 7/1/74 - 6/30/75	pre-service-training, in-service-training, ANISA-model, human-potential, student-learning-competencies, educational-processes, Hampden-Maine	- 0 -	66,151	66,151
Karasz, Frank E. Polymer Research Institute *	750265	National Science Foundation BMS72-02002-A05 Thermodynamic Studies of Conformational Transitions in Biopolymers 6/1/72 - 11/30/76	biopolymers, transition-temperation	1,950	3,760	5,700
Kennelly, James J. Massachusetts Cooperative Wildlife Unit	750722	U. S. Department of the Interior, Fish and Wildlife Service SFWB-80768 A Study of Blackbird Promiscuity 6/25/75 - 6/30/76	territoriality, reproduction, breeding	- 0 -	2,600	2,600
Kindahl, James K. Economics	750395	Resources for the Future, Inc. (Washington, D.C.) Long-Run Supply in the Forestry Inductry 2/1/75 - 1/31/76	forest-economy, wood-products, management	800	14,200	15,000
Kirchoff, Robert H. Mechanical and Aerospace Engineering	750091	National Science Foundation EPP75-04400 Undergraduate Research Participation Program 2/15/75 - 6/31/76	URP, electrical-power transmission, energy-consumption, undergraduate-education	650	11,370	12,020
*Karasz, Frank E.	740050 740701	[See Addendum]				

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Knightly, George H. Mathematics and Statistics	750145	National Science Foundation MPS75-07579 Mathematical Questions Prompted by Some Nonlinear Problems in Continuum Mechanics 6/1/75 - 11/30/76	navier-stokes, stability, branching, wake, shells, nonlinear	3,069	5,522	8,600
Preisler, Michael N. Physics and Astronomy	750127	National Science Foundation MPS73-08446-A03 High Energy Physics -- Spark Chamber Program 2/1/75 - 7/31/76	high-energy-physics, spark-chamber, elementary-particle-physics, Lambda-Beta-delay, hadron-production, Brookhaven-National-Lab, Princeton-University, cooperative-project	24,533	135,468	160,000
Rankel, Joseph G. Zoology	750498	National Institute of Allergy and Infectious Disease 5 R01 AI11269-02 Control of Cockroach Development 6/1/75 - 5/31/76	cockroach, disease-vectors, insecticides, culturing-studies, oocyte-development, insect-hormones, insect-development	4,823	11,170	15,993
Larson, Joseph S. Forestry and Wildlife Management	750710	U. S. Department of the Interior, Fish and Wildlife Service 14-16-0008-969 Integration of the National Wetland Classification System and the Land Use Data and Analysis Programs 6/23/75 - 12/26/75	classification, land-use, inventory, mapping	4,803	19,517	24,320
Laurence, R. L. Kittrell, J. R. Hultin, H. O. Chemical Engineering Chemical Engineering Food Science & Nutrition	740625	National Science Foundation APR72-03508-A03 Studies of a Catalytic Reactor Using an Immobilized Multi-Enzyme System 1/1/75 - 6/30/76	enzyme-engineering, immobilized-enzyme-catalysts, gluconic-acid-gluconate, glucose-oxidase, catalase, trickle-bed-reactor, food-processing	24,050	26,000	70,100
Lawson, Cassell School of Education	750467	City of New Haven (Connecticut) New Haven Teacher Training Program 1/2/75 - 6/30/75	outreach, para-professionals, urban-education	- 0 -	10,000	10,000
Ledgard, Henry F. Computer and Information Science	750549	U. S. Army Research Office DAHC04-75-G-0173 The Development of Quality Languages 6/15/75 - 6/14/76	language-design, programming-languages, softwares-quality, syntax, semantics	10,526	24,379	34,805

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Lenz, Robert W. Oster, Bernd Chemical Engineering	750511	Exxon Research and Engineering Company (Florham Park, New Jersey) Preparation of Black Copolymers by Free-radical Emulsion Polymerization 4/25/75 - 8/31/75	styrene, T-butyl-styrene, monomer-pairs	- 0 -	4,000	4,000
Lenz, Robert W. Chemical Engineering	750675	Foster Grant Company Inc. (Leominster, Mass.) Fellowship Support in Polymer Research 6/1/75 - 5/31/77	polymer-research	- 0 -	10,000	10,000
Lenz, Robert W. Chemical Engineering	750705	Exxon Chemical Company HEN755.12 Field of Polybenzyls 6/1/75 - 6/1/76	polybenzyls, polymer-synthesis	- 0 -	6,500	6,500
Lessie, Thomas G. Microbiology	750503	National Institute of General Medical Sciences 3 R01 GM21198-07S1 Allosteric Mechanisms in Pseudomas Catabolism 5/1/75 - 10/31/75	enzymes-allosteric, glucose-phosphate, phosphogluconate, dehydrogenases, genetics, glucose-metabolism	767	1,180	1,947
Levin, Bruce R. Zoology	750492	National Institute of General Medical Sciences 5 R01 GM19848-03 Protein Variation and Selection Mechanisms in E. coli 6/1/75 - 5/31/76	population-biology, bacteriophage, galactosidase, allelic-fitness	9,957	21,147	31,104
Levin, Robert E. Food Science and Nutrition	740772	Food and Drug Administration 5 R01 FD00153-09 Studies on Fish Spoilage and Related Bacteria 9/1/74 - 8/31/75	food-spoilage, bacterial-pathogens, fish-spoilage, pseudomonas-putrefaciens, phage, nucleic-acids, temperature-bacteria	3,900	11,151	15,051
Levin, Robert E. Food Science and Nutrition	750196	U. S. Army Natick Laboratories DAAK03-75-G-0002 Detection of Meat Spoilage Organisms with the Use of Gas Liquid Chromatography -- Mass Spectrometry 3/6/75 - 3/5/78	gas-chromatography, mass-spectroscopy, microbial-metabolism, meat-spoilage	- 0 -	21,000	21,000
Light, Robert G. Food and Agricultural Engineering	750767	Agway, Inc. Manure Management -- Physical and Chemical Properties of Free Stall Dairy Cow Manure when Winter Stored 9/1/74 - 8/30/76	manure-management, dairy-chore-reduction-program	- 0 -	5,000	5,000

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Gillis, H. Peter Chemistry	750346	National Science Foundation MPS74-00054 A01 Metal Carbon Bonding in Transition Metal pi-Complexes 6/1/75 - 11/30/76	metal-complexes, metal-carbon-bonds, transition-metals, organotransition-metals, catalysis, ligands, pi-bonding, stereochemistry, perturbation-theory	8,700	15,300	24,000
Gilbert, Stanley Industrial Engineering	750258	United Nations, World Health Organization W2-181-17 Feasibility Study of the Use of Bamboo Pipes in Pressurized Water Systems 1/5/75 - 12/31/75	water-systems, bamboo-pipes	- 0 -	2,000	2,000
Litsky, Warren Environmental Sciences	750300	Surgicot, Inc. (Garden City Park, N. Y.) Microbiological Barriers in Textiles and Textile Products 11/15/74 - 11/14/75	microbiological-barriers, textiles	- 0 -	2,000	2,000
Litsky, Warren Environmental Sciences	750299	The Dexter Corporation (Windsor Locks, Ct.) Microbiological Barriers in Textiles and Textile Products 11/15/74 - 11/14/75	microbiological-barriers, textiles	- 0 -	10,000	10,000
Litsky, Warren Environmental Sciences	750741	Merck Company Foundation (Rahway, N.J.) Grant for Faculty Development 5/28/75 - 5/27/76	faculty-development, environmental-science-research, departmental-award	- 0 -	8,000	8,000
MacKnight, William J. Polymer Research Institute	750060	Hooker Chemical Company Physical Properties of an Aromatic Copolyester 10/1/74 - 9/30/75	polymer-properties, Hooker-polymer-HLR-350, transition-states, polyblending	- 0 -	20,000	20,000
MacKnight, William J. Polymer Research Institute	750123	National Science Foundation DMR75-06916 Microphase Separation in Organic Polymers Containing Salt Groups 6/1/75 - 11/30/76	polymer-research, microphase-separation, ionic-cluster, acid-side-groups, chemistry	15,392	26,080	41,500
Mann, Larry M. Su, J. C. Mathematics and Statistics	750153	National Science Foundation MPS71-03142 A04 Differntiable and Riemannian Transformation Groups 6/1/75 - 11/30/76	transformation-groups, Reimannian-manifolds, isometry-groups, equivalent-cohomology, poincare-duality	9,494	16,106	25,600

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Marcum, James B. Vererinary and Animal Sciences	740115	National Institute of Child Health and Human Development 1 R01 HD08534-01 Experimental Induction of Freemartinism in the Ewe 5/1/75 - 4/30/76	sex-differentiation, freemartinism, hormonal-induction, mechanism, fetal-development, placental-anastomosis, genetics	7,605	21,820	29,425
Martin, Christopher Marine Station	750555	Massachusetts Department of Natural Resources, Division of Marine Fisheries DMF-3-75-R-1 Bioluminescence Studies for Early Detection of Paralytic Shellfish Poisoning Blooms in Natural Waters 5/1/75 - 3/1/76	red-tide, shellfish-poison, bioluminescence	- 0 -	9,450	9,450
Mason, Thomas L. Biochemistry	750002	National Institute of General Medical Sciences 5 R01 GM20909-02 A Genetic Approach to Membrane Assembly 9/1/74 - 8/31/75	mitochondria, membranes, genetics	11,850	24,610	36,460
Mason, Thomas L. Biochemistry	750002-S1	National Institute of General Medical Sciences 5 R01 GM20909-02 A Genetic Approach to Membrane Assembly 9/1/74 - 8/31/75	mitochondria, membranes, genetics	- 0 -	2,294	2,294
McConnell, William P. Forestry and Wildlife Management	750776	Massachusetts Department of Public Works, Bureau of Transportation, Planning and Development 17959 State Highway Related Land Use Planning 10/15/74 - 10/14/75	3C-process, state-highways, highways-related-land-use	- 0 -	31,400	31,400
McCoy, Rhody A. Provost's Office	740410	U. S. Office of Education OEG-1-74-8473 Special Services -- CCEBS Special Education Program 6/16/74 - 6/29/75	CCEBS, Black-students, Spanish-speaking-students, minority-students, undergraduate-education, tutorials, job-opportunities, upward-bound, academic-counseling, personal-counseling	- 0 -	65,000	65,000
McEwen, William E. Chemistry	740610	National Science Foundation MPS72-05008 A02 Studies in Heteroatom Chemistry 9/15/74 - 2/29/76	pentaarylphosphorous-compounds, potassium-alkoxides, X-ray-crystallographic-study, ethyl-iodide-aryldiethylphosphines-kinetics, Reissert-compounds, hydrolysis, heteroatom-chemistry	8,294	18,206	26,500

Investigator Co-Investigator Department	OCK No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
McGill, George E. Geology Geography	750278	National Aeronautics and Space Administration NGR-22-010-076(S.5) Origin and Degradation of Martian Craters 9/1/74 - 8/31/75	Mars-mapping, Mariner-data	7,150	21,000	28,150
[illegible], Robert E. Electrical and Computer Engineering	750360	Air Force Office of Scientific Research AFOSR-75-2763A Propagation of Transient Signals Through Nonlinear Ionized Media 3/1/75 - 2/29/76	nonlinear-pulse- dispersion, microwave-pulses, low-density-plasmas	- 0 -	30,000	30,000
Melrose, Jay Communication Disorders	750048	Massachusetts Department of Public Health, Division of Family Health Services Establishment of Graduate Student Fellowships 9/1/74 - 6/30/75	Bauer-Stephanie, Surprenant-Renee, communication-disorders, training	- 0 -	7,114	7,114
Metzler, Jacqueline Spinelli, Nico Psychology	750770	National Institute of Mental Health 1 F02 MH44282-01 PHS Research Fellowship in Psychology 6/29/74 - 6/28/75	research-fellowship, supply-allowance	- 0 -	13,500	13,500
Middleman, Stanley Chemical Engineering	750204	Estman Kodak Company Experimental and Theoretical Study of Coating Flows of Viscoelastic Fluids 1/1/75 - 12/31/75	viscoelastic-fluids, shear-flows, elongational-flows	- 0 -	3,000	3,000
Middleman, Stanley Chemical Engineering, Polymer Research Institute	750771	Kimberly-Clark Corporation, Peter J. Schweitzer Division (Lee, Mass.) Coating Flows of Fisco Elastic Fluids 9/6/74 - 3/1/75	coating-fluids	- 0 -	3,000	3,000
Middleman, Stanley Chemical Engineering, Polymer Research Institute	750772	The Kendall Company (Lexington, Mass.) Coating Flows of Visco Elastic Fluids 9/6/74 - 3/1/75	coating-fluids	- 0 -	3,000	3,000
Mishol, Robert Bursar's Office (Trail, Ira D.) Nursing	750775	Health Resources Administration, Bureau of Health Resources Development 01L250056-75/01L250021-75 Nursing Student Loan Program 7/1/74 - 6/30/75	nursing-loans, student-aid	- 0 -	1,472	1,472

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Monopoli, Richard V. Electrical and Computer Engineering	740072	National Science Foundation ENG74-03399 New Concept in Model Reference Adaptive Systems 9/1/74 - 2/28/77	engineering-design, adaptive-systems, Liapunov-models, plant-output, error-signals, control-systems, state-variable-filters	20,865	38,500	59,400
Moore, John W. Psychology	750020	National Science Foundation BMS75-02270 Mechanisms of Inhibition in Classical Conditioning 1/15/74 - 6/30/77	conditioning-stimulus-control, inhibition, nictitating-membrane, Pavlovian-inhibition, disinhibition, Rescorla-Wagner-model	14,820	34,800	49,600
Morse, Stearns A. Geology/ Geography	740609	National Science Foundation DES74-22509 Chemistry of Anorthosites and of Model Parent Liquids, Nain Complex, Labrador 10/15/74 - 3/31/77	geochemistry, anorthosite, nain-complex, petrology, crystal-liquid-ratios, Kiglapait-intrusion, magmas	15,340	42,820	58,160
Morse, Stearns A. Geology/ Geography	740609-S1	National Science Foundation DES74-22509-A01 Chemistry of Anorthosites and of Model Parent Liquids, Nain Complex, Labrador 10/15/74 - 3/31/77	Kiglapait-intrusion, magmas, geochemistry, anorthosite, nain-complex, petrology, crystal-liquid-ratios,	- 0 -	1,500	1,500
Morse, Stearns A. Geology/ Geography	750070	National Science Foundation DES73-00667-A01 Evolution of Anorthosite and Related Crustal Rocks in Coastal Labrador 10/1/74 - 3/31/76	geochemistry, anorthosite, nain-complex, petrology, crystal-liquid-ratios, Kiglapait-intrusion, magmas	1,650	30,040	31,700
Morth, Grace E. Fraser, Thomas Anthropology	740832	National Institute of Mental Health 1 F01 MH57276-01 Fellowship in Sociology and Anthropology 6/27/74 - 6/26/75	graduate-fellowship, sociological-anthropological-research	- 0 -	5,300	5,300
Mortlock, Robert P. Microbiology	750457	National Institute of Allergy and Infectious Diseases 5 R01 AI06848-10 The Evolution of Enzymatic Activities 6/1/75 - 5/31/76	metabolic-pathways, catabolis, viral-genetics	11,830	20,520	32,350

Investigator Co-Investigator Department	K.K. No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
[illegible], Mark S. Plant Pathology	[illegible]	National Cancer Institute 5 P01 CA14674-03 Involvement of Bacterial RNA Polymerase in Crown Gall 6/1/75 - 5/31/76	crown-gall-disease, tumor-tissue, A-fumefaciens	7,868	14,136	22,004
Mallett, Richard L. Food and Agricultural Engineering	750225	National Science Foundation ENG75-10648 Alternative Protein Resources: Upgrading in Forage Crops by Microbial Processing 4/1/75 - 3/31/77	protein-resources, microbial-processing solid-state-cultures	4,420	12,550	17,000
Munn, Nancy D. Anthropology	750773	National Science Foundation SOC73-09141 A01 Sociocultural Symbolism in a Northern Massin Society 4/1/75 - 9/30/76	symbolism, sociocultural-study, Gawa-Pacific-Islands, social-processes, visual-display, magic, esthetics, ritual, myths	- 0 -	3,016	3,000
Myers, Jerome L. Psychology	750343	National Institute of Mental Health 1 R01 MH25434-01 Storage and Retrieval Mechanism in Recall 6/1/75 - 5/31/76	structure, memory, long-term-memory, activation-level	10,261	19,961	30,222
Navon, David H. Alvin, Vinson C. Electrical and Computer Engineering	750261	International Business Machines Corporation Thermal Stability of High Power Transistors 12/31/74 - 12/30/75	transistors, thermal-stability, electro-thermal-interaction, computer-modelling	- 0 -	10,000	10,000
Nawar, Wassef W. Food Science and Nutrition	750774	Imasco Foods Limited (Montreal, Canada) Effects of Processing Conditions on Chemical Properties of Tortillas 11/1/74 - 10/31/75	food-processing, food-quality	- 0 -	10,000	10,000
Nawar, Wassef W. Kayser, Stanley Food Science and Nutrition	750088	U. S. Army Natick Laboratories DAAK03-75-G-0001 Degradation Products of Unsaturated Fatty Acids Present in Food Lipids 1/1/75 - 12/31/77	lipids, metabolism fatty-acids	- 0 -	7,500	7,500
Nober, E. Harris Communication Disorders	750120	U. S. Office of Education, Bureau of Education for the Handicapped G007500420 Speech and Hearing Traineeship 6/1/75 - 5/31/76	communication-disorders, professional-training, handicapped-children, speech, hearing	2,944	37,056	40,000

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Nober, E. Harris Communication Disorders	740611	Social and Rehabilitation Service 44-P-05344/1-01 Teaching Grant and Traineeships in Speech Pathology and Audiology 9/1/74 - 8/31/75	communication-disorders, speech-pathology, audiology, handicapped, disadvantaged, Clark-School, community-health, curriculum-development, graduate-undergraduate-education	600	11,125	11,725
Norkin, Leonard C. Microbiology	750419	American Cancer Society Analysis of Cytocidal and Persistent SV40 Infections 5/1/75 - 4/30/76	neoplastic-transformation, virus-cell, cell-degeneration	- 0 -	18,000	18,000
Noyes, John H. Forestry and Wildlife Management, Cooperative Extension Service	750690	U. S. Department of Agriculture, Forest Service 42-00,052 Berkshire-Franklin RC&D Project 10/29/74 - 10/28/75	forestry, conservation, Berkshires	- 0 -	15,000	15,000
Odiorne, George S. School of Business Administration	750735	Office of the Governor (Massachusetts) Study to Determine the Feasibility of Developing a Research and Science Park at Westover Air Force Base, Mass. 6/2/75 - 9/12/75	Westover-Base-conversion, science-park, research-park, market-demand, energy-research	400	4,600	5,000
Olley, Gregory Sulzar-Azaroff, Beth Psychology	750121	U. S. Office of Education, Bureau of Education for the Handicapped G007509419 PAG - Training for Educational Change Strategies for the Handicapped 6/1/75 - 5/31/76	handicapped-children, professional-training, behavior-modification, diagnosis, prescription	2,740	34,260	37,000
Ortiz, Jesse Public Health	750585	Ortho Research Foundation (Raritan, N. J.) Evaluation of Vermox Against Trichiuris and Other Parasitic Infections 4/14/75 - 4/14/76	infections, parasitic, children	- 0 -	2,445	2,445
Papadopoulos, George D. Electrical Engineering	740621	Research Corporation Investigation of a Statistical Inversion Technique for Very-Long-Baseline-Interferometer (VLBI) Data 11/1/74 - 10/31/75	radio-astronomy, interferometers, galactic-clouds	- 0 -	6,000	6,000

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Peterson, Gerald A. Physics and Astronomy	740707	Energy Research and Development Administration AT(11-1)-2545 Nuclear Structure Studies by the Scattering of High-Energy Electrons 1/1/75 - 1/1/76	nuclear-structure, electron-scattering, resonance, Bates-linear-accelerator, NBS, electrodisintegration, magnetization-distribution	12,371	87,629	100,000
Peterson, Gerald A. Physics and Astronomy	740708	National Science Foundation MPS74-23869 Nuclear Structure Studies by the Scattering of High-Energy Electrons 1/1/75 - 6/30/76	nuclear-structure, electron-scattering, resonance, Bates-linear-accelerator, NBS, electrodisintegration, magnetization-distribution	19,468	40,532	60,000
Picha, Kenneth G. School of Engineering	750779	Polaroid Foundation, Inc. Engineering Careers for Minority High School Students 7/30/74 - 7/29/75	engineering-career-orientation, identifying, motivating, preparing, minority-high-school-students	- 0 -	3,500	3,500
Porter, Roger S. Sanchez, Isaac Polymer Science and Engineering	750076	Army Materials and Mechanics Research Center (Watertown, Mass.) DAAG46-75-C-0052 Preparation and Characterization of Polymers with Unique Physical Properties 4/7/75 - 4/7/76	polymer-blends, polymer-crystallinity, polymer-physical-properties, tensil-strength	- 0 -	30,000	30,000
Porter, Roger S. Polymer Research Institute	750202	Office of Naval Research N00014-67-A-0230-0011 Composites from a Single Polymer 5/1/75 - 4/30/76	polymer-morphologies, extended-chain-crystals, polyethylene	9,100	15,900	25,000
Price, Fraser P. Polymer Science and Engineering	740372	National Science Foundation DMR74-15629 Crystallization of Polymers Under Extreme Conditions 9/15/74 - 2/28/77	polymer-crystallization, shear-orientation, supercooling, cryogenics, polymer-blends, crystallization-kinetics	20,000	35,400	55,400
Quilling, Mary R. School of Education	750235	Capitol Region Education Council (Windsor, Ct.) Evaluation of the Farmington Public Schools' Mathematics Program 8/20/74 - 1/24/75	mathematics-evaluation, Connecticut-schools, Farmington-schools	- 0 -	3,200	3,200
*Peterson, Gerald A.	740529	[See Addendum]				

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Raush, Harold L. Psychology	740493	National Institute of Mental Health 2 T01 MH06244-20 Training Program in Clinical Psychology 7/1/74 - 6/30/75	community-mental-health, clinical-psychology, behavior-modification, family-therapy, graduate-education	7,384	102,357	109,741
Reed, Roger J. Massachusetts Cooperative Fishery Unit	750780	Northeast Utilities Anadromous Fishery Research Studies in the Turners Falls Pond 1/1/75 - 12/31/75	cooperative-fish-project	- 0 -	41,240	41,240
Reed, Roger J. Massachusetts Cooperative Fishery Unit	750794	New England Power Company Anadromous Fishery Research Studies in the Turners Falls Pond 1/1/75 - 12/31/75	cooperative-fish-project	- 0 -	13,745	13,745
Reed, Roger J. Massachusetts Cooperative Fishery Unit	76A037	U. S. Department of the Interior, Fish and Wildlife Service 14-16-0005-4588 An Ecological Survey of the West Branch Westfield River Watershed and Other Connecticut River Tributaries 6/2/75 - 8/30/76	Westfield-River, watershed, insect, aquatic	- 0 -	4,600	4,600
Reynolds, Richard Winarno, Andreas Public Health	750792	U. S. Agency for International Development AID/csd-3221 Health Education in Indonesia 5/1/75 - 8/31/75	participant-training, Indonesia, family-planning, health-education	- 0 -	662	662
Rice, William W. Forestry and Wildlife Management	750434	W. D. Cowls, Inc. (Amherst, Mass.) Drying Programs for Automated Kiln Drying of Lumber 2/3/75 - 2/2/76	kiln-drying, automation	- 0 -	100	100
Riseman, Edward M. Computer and Information Science	750054	Office of Naval Research N00014-75-C-0459 Automated Scene Analysis 1/1/75 - 12/31/75	scene-analysis, vision-processing, semantic-direction, pattern-recognition, context-direction, computer-models	11,256	23,744	35,000
Rising, Edward J. Industrial Engineering	750439	National Center for Health Services Research 5 R01 HS00709-05 Design and Evaluation Methodology for Outpatient Systems 6/30/75 - 6/29/76	information-dissemination, evaluation, health-services	32,542	56,115	88,657

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Ritter, John F. Mechanical and Aerospace Engineering	750178	National Science Foundation DMR75-08799 Proof Testing of Glass and Ceramic Materials 5/1/75 - 10/31/77	glass, ceramics, proof-testing, brittle-materials, computer-simulation	14,345	26,570	40,900
Roberts, Larry S. Zoology	750391	National Institute of Allergy and Infectious Diseases 5 R01 AI06153-12 Growth Physiology of Cestodes 5/1/75 - 4/30/76	parameters-of-development, carbohydrate-metabolism, hexose-transport	12,384	27,129	37,952
Robinson, Peter Geology/Geography	750326	National Science Foundation DES75-15012 Detailed Phase Chemistry in Progressive Metamorphism of Pelitic Schists, West-Central Massachusetts 6/1/75 - 11/30/77	pelitic-schists, mineralogy, tectonics	8,450	17,708	26,200
Roof, W. Clark VanValey, Thomas L. Sociology	750036	National Science Foundation SOC75-03438 Segregation and Differentiation: City-Suburb Contrasts 10/15/74 - 7/31/76	residential-segregation, assimilation	10,441	22,427	32,900
Rosenberg, Stanley Venman, William C. Continuing Education	750781	William H. Donner Foundation, Inc. Community Arts Development and Tour Bookings Program 7/1/74 - 6/30/76	Arts-Extension-Service, developing-an-audience-for-the-arts	- 0 -	48,150	48,150
Rossi, Peter H. Sociology	740395	National Institute of Mental Health 1 T21 MH13740-01 Evaluation Training: Design and Demonstration 7/1/74 - 6/30/75	evaluation-research, social-sciences, research-design, graduate-training, policy-analysis, postdoctoral-training, methodology-social-sciences, societal-problems	2,457	30,715	33,172
Rossi, Peter H. Sociology	740541	Russell Sage Foundation The Development of Techniques for the Measurement of Public Services 9/1/74 - 8/31/75	public-services-evaluation, social-indicators, evaluation-research, service-delivery, satisfaction-measures	6,396	42,638	49,034

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Rossi, Peter Sociology	750795	Russell Sage Foundation Income Maintenance Evaluation 10/1/74 - 9/31/75	New-Jersey, Pennsylvania, income-maintenance	- 0 -	9,426	9,426
Rowell, Robert L. Chemistry	740144	National Science Foundation MPS74-04805 Non-Linear Light Scattering in Colloidal Solutions 9/1/74 - 2/29/76	colloids, light-scattering, particle-size, polarizability-dispersons, lasers, interparticle-forces	5,850	21,150	27,000
Rudvalis, Arunas Mathematics and Statistics	750146	National Science Foundation MPS73-08603 A02 The Characters and Subgroups of $^2E_6(2)$ and Other Simple Groups 6/1/75 - 11/30/76	finite-groups, character-tables, simple-groups	2,436	4,564	7,000
Santner, Lynn Financial Aid	750796	U. S. Department of Justice, Law Enforcement Assistance Administration Law Enforcement Education Program, FY '75 7/1/74 - 6/30/75	law-enforcement, BDIC, BGS, associates-degree, undergraduate-education	- 0 -	12,900	12,900
Schimmel, David School of Education	750108	Charles F. Kettering Foundation (Dayton, Ohio) IA 74-109 State-wide Education on Critical Global Issues 7/1/74 - 6/30/75	global-survival, undergraduate-education	- 0 -	16,480	16,480
Schneider, Donald L. Biochemistry	750390	National Institute of General Medical Sciences 1 R01 GM21260-01 Enzymes Linking Bioenergy to Catabolism in Lysosomes 6/1/75 - 5/31/76	lysosome-catabolism, energy-metabolism, atpase, membranes, proteolysys, enzyme-regulation, phospholipase, lysolecithin-acylase, bioenergetics	11,442	25,253	36,695
Scribner, Harvey B. School of Education	750392	Rockefeller Brothers Fund Development of Learning Centers for Students Who Are Functionally Illiterate 11/26/74 - 11/25/75	school-reform, alternative-programs, public-schoole	2,172	27,150	29,322
Scribner, Harvey B. School of Education	740563	City of Boston, School Committee Boston English High School 6/23/75 - 8/1/75	urban-education, teacher-education, Boston-English-High-School, alternative-education, school-reforms, secondary-education, community-participation, in-service-training	- 0 -	42,613	42,613

Investigator Co-Investigator Department	PCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Sevoian, Martin Veterinary and Animal Sciences	750051	National Cancer Institute 3 R01 CA13272-03S1 Defense Mechanisms to Marek's Disease 5/1/74 - 10/31/75	avian-viruses, Mareks-disease, genetic-susceptibility, host-virus, immunoligocal-control, tumor-growth, interferon	3,542	7,175	10,717
Sevoian, Martin Veterinary and Animal Sciences	750782	U. S. Department of Agriculture, Animal and Plant Health Inspection 12-16-1-701 Development of Testing Methods for the Evaluation of the Efficacy, Safety and Purity of JMV-A Strains of Marek's Virus 4/8/75 - 4/7/76	evaluation-of-JMV-A-vaccine, safety, efficacy, purity	- 0 -	25,000	25,000
Shafer, Janice Button Physics and Astronomy	750155	Energy Research and Development Administration AT(11-1)-3330 High-Energy Physics 1/1/75 - 12/31/75	high-energy-physics, spark-chamber-physics, spectrometer-multi-particle, polarized-photoproduction, compton-scattering	57,684	100,316	158,000
Short, W. Leigh Chemical Engineering	750340	Monsonto Research Corporation (Dayton, Ohio) Adsorption of Gases on Open Pore Polyurethane and Other Porous Polymers 1/1/74 - 12/31/75	porous-polymers, spheropores, continuous-adsorption	- 0 -	16,600	16,600
Siggia, Sidney Uden, Peter C. Chemistry	740361	National Science Foundation MPS74-15244 Characterization of Oil Shale and Shale Oil 2/1/75 - 7/31/77	shale-oil, oil-production, pyrolysis, chromatography, chemical-analyses, thermal-degradation, energy-production	31,330	63,800	95,100
Siggia, Sidney Chemistry	750116	National Science Foundation MPS73-08529-A02 Instrumental Methods Utilizing Chemical Reaction 6/1/75 - 11/30/76	gas-chromatography, imides, analytical-chemistry, polysiloxanes, silicones	13,376	27,079	40,500
Silberger, Allan J. Mathematics and Statistics	750144	National Science Foundation MPS75-07463 Eisenstein Series Over Function Fields 6/1/75 - 11/30/76	Eisenstein-series, function-fields	2,756	4,940	7,700

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Simmons, Emery Bigelow, Margaret Botany	740848	U. S. Army Natick Laboratories DAAK03-74-C-0230-P00003 Maintenance of Culture Collection of Fungi 3/19/75 - 3/18/76	isolate-identification, fungi-culture-collection, micro-fungi-classification, fungus-culture,organization	23,127	40,780	63,907
Smith, Albert C. Botany	740631	National Science Foundation BMS72-02433 A02 The Flora and Phytogeography of the Fijian Region 11/1/74 - 4/30/76	Fiji-flora, phytogeography	5,380	18,400	23,800
Smith, Albert C. Haas, Judith Botany	750183	National Science Foundation BMS74-05574-A01 Doctoral Dissertation Research in Problems of the Family Pittosporaceae 4/1/74 - 10/31/76	botany, Pittosporum, taxonomy, morphology	- 0 -	3,000	3,000
Snoeyenbos, Glenn H. Veterinary and Animal Sciences	750594	Fats and Proteins Research Foundation, Inc. (Des Plaines, Ill.) Residual Preservative and Growth of Salmonella in Animal By-Products 3/1/75 - 2/29/76	preservative, development, foods	- 0 -	10,000	10,000
Speidel, Judith D. Sullivan, Patrick J. School of Education	740476	National Endowment for the Humanities ES-21039-75-103 The Shaker Legacy (An Educational Film) 1/6/75 - 1/31/76	Shaker-society, film-making, educational-film, bicentennial, Rourke-Constance, Copland-Aaron, Sheeler-Charles, history-American, art-American	712	8,900	9,612
Spielman, Arless A. Gentile, Adrian Suburban Experiment Station	750709	Environmental Protection Agency 68-01-3230 Technical Assistance Pesticides Certification Project 6/19/75 - 6/18/76	health, training, certification	- 0 -	10,000	10,000
Spinelli, D. Nico Computer and Information Science	740390	National Institute of Mental Health 2 R01 MH25329-02 Neuropsychology of Visual Recognition and Perception 9/1/74 - 8/31/75	visual-recognition, perception, brain-mechanisms, neurons, visual-cortex, neural-networks	21,450	58,000	79,450
Staub, Ervin Psychology	750497	National Institute of Mental Health 5 R01 MH23886-03 The Development of Prosocial Behavior in Children 6/1/75 - 5/31/76	behavior, prosocial-behavior, helping, sharing	14,793	25,523	40,316

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Stein, Richard S. Polymer Research Institute	750081	National Science Foundation DMR75-05004 Optical and X-Ray Studies of Polymer Relaxation 6/1/75 - 11/30/76	polymer-structure, X-ray-diffraction, physical-properties, spectroscopy, relaxation-molecular, crystalization	11,577	33,423	45,000
Stein, Richard S. Polymer Research Institute	750110	U. S. Army Research Office - Durham DAHC04-75-G-0135 Dynamic Orientation Studies of Crystalline Polymers 6/1/75 - 5/31/76	polymers, spherulite, polyethylene	8,782	20,510	29,292
Stein, Richard S. Polymer Research Institute	750783	Allied Chemical Foundation Support of Graduate Studies in Polymer Research 2/24/75 - 5/31/76	polymer-graduate-research, special-graduate-support, polymer-training	- 0 -	5,000	5,000
Stein, Richard S. Polymer Research Institute	750784	Uniroyal Foundation Support of Graduate Studies in Polymer Research 2/28/75 - 5/31/76	polymer-graduate-research, special-graduate-support, polymer-training	- 0 -	3,000	3,000
Sternheim, Morton M. Physics and Astronomy	750203	National Science Foundation MPS74-11793 A01 Theory of Interaction of Mesons and Nucleons with Nuclei 4/1/75 - 9/30/76	charge-exchange, pions, energy-distribution	4,612	13,173	17,800
Stoffolano, John G. Entomology	740774	National Institute of Child Health and Human Development 5 R01 HD07033-03 Effect of Aging on Chemoreceptor Sensillia 9/1/74 - 8/31/75	feeding-behavior, aging, chemoreceptors, flies, diapause, respiration	8,450	16,659	25,109
Stone, Harold S. Electrical and Computer Engineering	740308	National Science Foundation DCR74-20025 Studies in Parallel Computation 11/1/74 - 4/30/77	compter-design, computation-theory, parallel-computation, matrix-transformation, algorithms-serial, high-speed-computers, SIMD, MIMD, processor-array	20,040	35,130	55,200
Strickland, Bonnie R. Psychology	750484	National Institute of Child Health and Human Development 5 R01 HD08952-02 Locus of Control, Aspiration and Competence in Children 6/1/75 - 5/31/76	control-of-reinforcement, expectation, school-performance	7,280	12,800	20,080

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Strong, John D. Physics and Astronomy	740497	National Aeronautics and Space Administration NGL-22-010-025(S.8) Balloon Astronomy 7/1/74 - 6/30/75	coronagraphs, infrared-studies, baloon-astronomy, solar-eclipse, solar-particles	12,577	27,423	40,000
Strong, John D. Physics and Astronomy	750063	U. S. Department of Commerce, National Oceanic and Atmospheric Administration 04-4-158-32 Study of Water Vapor Lines in the Intermediate Infrared Region 10/1/74 - 11/1/74	infrared-studies, water-vapor, weather-satellites	1,970	4,145	6,115
Strong, John D. Physics and Astronomy	750436	U. S. Department of Commerce, National Oceanic and Atmospheric Administration 04-5-158-61 Study of Water Vapor Lines in the Intermediate Infrared Region 6/1/75 - 5/31/76	absorption-spectra, wind-absorption, Ebert-monochronometer	9,579	22,421	32,000
Swedlund, Alan C. Anthropology	750489	National Institute of Child Health and Human Development 5 R01 HD08979-02 Fertility and Migration Trends in Rural New England 6/1/75 - 5/31/76	fertility, continuous-communities, marriage, migration	12,706	24,833	37,539
Tang, Ting-Wei Electrical and Computer Engineering	750323	National Science Foundation ENG74-00079 A01 Mode Conversion at the Lower Hybrid Resonance in Inhomogeneous Magnetoplasmas 3/18/75 - 6/30/76	resonance, mode-conversion, electric-fields, ion-motion, energy-absorption, plasma-heating, thermonuclear-reactors, hybrid-frequency	1,950	3,250	5,200
Taylor, Joseph H. Physics and Astronomy	740337	National Science Foundation MPS73-08610 A01 A High Sensitivity Survey to Detect New Pulsars 9/15/74 - 2/29/76	radioastronomy, pulsars, Arecibo-Observatory, pulsar-classes, galactic-structure	7,390	26,069	33,500
Trail, Ira D. Gallagher, A. H. Nursing	750480	National Institutes of Health, Bureau of Manpower Education 01-D-000054-02-0 Community Satellite Learning Centers to Implement GSN Curriculum 6/1/75 - 5/31/76	nursing-education, community-nursing, satellite-nursing-centers, Mass.-communities	11,770	152,125	163,895
Uden, Peter C. Chemistry	750079	National Science Foundation MPS73-05207 A01 Chemical Studies and Analytical Applications of Volatile Metal Complexes 12/5/74 - 5/31/76	analytical-chemistry, volatile-metals	11,299	23,001	34,300

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Vanpee, Marcel Kashin, Kenneth D. Chemical Engineering	740369	National Science Foundation ENG74-17383 Chemistry of Pre-Mixed Fluorine Flames 2/15/75 - 7/31/77	combustion, fluorine-flames, fuels, hydrogen-fluorine, methane-fluorine, ammonia-fluorine, cyanogen-fluorine, oxidation, burning-velocity	12,571	28,590	41,200
Vaznaian, Helen R. Home Economics	750254	Massachusetts Department of Education, Division of Occupational Education C + H 7875 Home Economics Teacher Training 7/1/74 - 6/30/75	home-economics, consumer-education, teacher-training	- 0 -	60,000	60,000
Venman, William C. Kataoka, Richard Continuing Education	750161	National Endowment for the Arts R50-53-159 Expansion Arts Program/Neighborhood Arts Services 7/1/74 - 6/30/75	community-art, art-extension, art-education, disadvantaged-communities, Pittsfield, Springfield	- 0 -	10,000	10,000
Viera, Silvia School of Education	750466	Holyoke Public Schools Training of Bilingual Teachers 4/1/75 - 9/30/75	in-service-training, Spanish-English	- 0 -	25,000	25,000
Vogl, Otto Polymer Science and Engineering	740608	National Science Foundation DMR72-03223 A01 Chemical Architecture of Synthetic Macromolecular Materials 10/1/74 - 3/31/77	copolymer-structures, stereo-structural-regularities, head-to-head-polymers, non-flammable-high-modulus-engineering, polymer-blends, microphase-separated-systems	23,270	49,800	73,100
Wade, George N. Psychology	750134	National Institute of Neurological Diseases and Stroke 5 R01 NS10873-03 Hormones, Brain Function and Behavior 2/1/75 - 1/31/76	gonadal-steroids, copulatory-behavior, physiological-psychology, body-weight	8,255	21,583	29,838
*Wajdi, Mehran	750228	[See Addendum]				

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Walker, James W. Botany	750034	National Science Foundation BMS75-02883 Scanning Electron Microscope 5/15/75 - 10/31/76	scanning-electron-microscope, equipment-SEM, biological-research, electron-microscopy, life-sciences, matching-funds	- 0 -	27,700	27,700
Walker, James W. Botany	750207	National Science Foundation BMS75-10438 Origin, Early Evolution, and Phylogeny of the Angiosperms 6/1/75 - 11/30/76	floral-morphology, angiosperms	5,733	20,770	26,500
Watt, Norman F. Psychology	740333	National Institute of Mental Health 1 T22 MH00042-01 Institutional Research Fellowship Program in Schizophrenia 7/1/74 - 6/30/75	fellowship-training, postdoctoral-training, schizophrenia, longitudinal-research, emotional-disorders	2,347	29,333	31,680
Westhead, Edward W. Biochemistry	750342	National Institute of Arthritis, Metabolism and Digestive Diseases 5 RO1 AM11157-09 Molecular Basis of Aspartokinase Feedback Control 4/1/75 - 3/31/76	E. coli, cell-growth, lysine	16,745	30,404	47,149
Westhead, Edward W. Biochemistry	750481	National Institute of General Medical Sciences 5 RO1 GM14945-09 Divalent Cations in Enolase and Other Biological Systems 6/1/75 - 5/31/76	enolase, pyruvate-kinase, cobalt-binding	12,675	29,481	42,156
Whaley, Ross S. Landscape Architecture and Regional Planning	750227	Planning Approaches for Community Environments, Inc. (Cambridge, Mass.) Citizens Advisory Service 10/7/74 - 10/6/75	land-use-planning, environmental-analysis, undergraduate-education	- 0 -	10,000	10,000
Whaley, Ross S. Landscape Architecture and Regional Planning	750785	U. S. Department of Agriculture, Soil Conservation Service Technical Assistance and Expertise for Towns Undertaking a Natural Resources Planning Program 1/13/75 - 6/30/75	landscape-architecture-regional-planning, forestry-wildlife-management, food-resources-economics	- 0 -	14,500	14,500

Investigator Co-investigator Department	OCK No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Wilkie, Richard W. Institute for Man and Environment, Geology/Geography	750117	National Institute of Child Health and Human Development 3 R01 HD07397-03S1 A Population Study of Rural Migrants in Urban Areas 6/1/75 - 5/31/76	migration, Argentina, assimilation, new-environments, population-redistribution	9,642	17,744	27,386
Wilkie, Richard W. Institute for Man and Environment, Geology/Geography	750475	National Institute of Child Health and Human Development 5 R01 HD07397-03 A Population Study of Rural Migrants in Urban Areas 6/1/75 - 5/31/76	migrations, modernization, Latin-America, peasant-migration	4,155	6,393	8,746
Wilson, William R. Mechanical and Aerospace Engineering	740496	National Science Foundation ENG74-19921 Damping at Metallic Interfaces 6/1/75 - 11/30/77	metallic-joints, friction, damping, metallurgy, structures, machine-tools, machine-noise, lubrication	22,425	38,300	60,700
Winder, Alvin E. Nursing	740503	National Institute of Mental Health 5 T02 MH06400-19 Training Program in Undergraduate Psychiatric Nursing 7/1/74 - 6/30/75	nursing-education, psychiatric-nursing, psycho-social-pathology, patient-care, community-health, mental-health	1,146	14,818	15,964
Wise, Donald U. Geology/Geography	750575	Mobil Research and Development Coproration Tectonic Research: Distribution and Origin of Lineament and Fracture Patterns 4/24/75 - 4/23/76	lineament, fracture-patterns, petroleum	- 0 -	2,000	2,000
Wolf, Jack Electrical and Computer Engineering	740624	Air Force Office of Scientific Research AFOSR-74-2601A Information and System Theory and Automated Technical Control 9/1/74 - 8/31/75	digital-communication-system, automated-control, communication-reliability	9,961	16,389	26,350
Wyse, Gordon A. Zoology	750683	National Institute of Neurological and Communicative Disorders and Stroke 5 R01 NS08869-05 Physiology of the Central Nervous System 6/1/75 - 5/31/76	sensory-input, limulus, respiratory-patterns	13,749	25,520	39,269

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Yaukey, David Sociology	730318	National Institute of Child Health and Human Development 1 R01 HD07943-01 Reproductive Time Lost Through Marital Dissolution 3/1/75 - 2/28/76	reproductive-time, marital-dissolution, Latin-American-cities, fertility, divorce, demography, widowhood, nuptiality, marital-status, fertility-policy	7,407	14,326	21,733
Yngvesson, K. Sigfrid Electrical and Computer Engineering	750190	National Science Foundation MPS75-09730 Maser Receivers for Three Millimeter Wavelength 5/15/75 - 10/31/76	electrical-engineering, maser, radioastronomy	16,910	60,200	77,100
Zimmermann, Robert A. Biochemistry	740650	National Institute of General Medical Sciences 1 K04 GM00129-01 Structure of Protein Binding Sites in Ribosomal RNA 6/1/75 - 5/31/76	ribosomes, RNA, protein-binding	- 0 -	23,395	23,895
Zimmermann, Robert A. Biochemistry	750506	National Science Foundation BMS74-00392 A01 Structure of Protein Binding Sites in Ribosomal RNA 5/1/75 - 10/31/76	ribosomes, RNA, protein-binding	9,340	20,660	30,000
Zube, Ervin H. Institute for Man and Environment	750065	National Science Foundation ENG75-04353 A Study of Acceptable Wind Speeds in the Urban Environment 4/15/75 - 9/30/76	wind-actions, urban-environment, architecture, building-winds, city-planning, human-factors, microclimatology, Boston-Redevelopment-Authority, environmental-psychology	9,906	66,923	66,900
Zube, Ervin H. Craik, Kenneth H. Institute for Man and Environment	750159	National Science Foundation SOC75-07862 Research Workshops on Perceived Environmental Quality Indicators 3/1/75 - 2/29/76	environmental-perception, environmental-indices, recreation, residential-environment, atmospheric-environments, scene-analysis	3,861	19,270	23,100
Zube, Ervin H. Institute for Man and Environment	750180	U. S. Department of the Interior, National Park Service CX-2000-5-0017 Workshop on Land Classification 11/12/74 - 12/15/74	environmental-design, active-recreation, evaluation, land-classification	- 0 -	1,157	1,157

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Zube, Ervin H. Institute for Man and Environment	750252	U. S. Department of the Interior, National Park Service CX-2000-5-0017 Design Evaluation Studies: Various National Park Service Interpretive/Visitor Centers 12/10/74 - 5/1/76	interpretive-visitor-centers, evaluation, analysis, design-objectives, intensity-of-use, maintenance, future-designs	5,707	22,215	27,922
Zube, Ervin H. Institute for Man and Environment	750298	Massachusetts Executive Office of Environmental Affairs, Division of Coastal Zone Management 2000-0141 Design of Model Coastal Zone Management Legislation 1/1/75 - 6/29/75	environmental-protection, coastal-zone, coastal-resources	- 0 -	9,000	9,000
Zube, Ervin H. Institute for Man and Environment	750440	Massachusetts Executive Office of Environmental Affairs 2000-0100 Advise Secretary of Environmental Affairs in Preparation of Reports and Legislation 9/1/74 - 6/30/75	environmental-impact-reports-review, information-management-system-implementation, Park-Plaza-urban-renewal-project, Franklin-Park-Zoo	- 0 -	8,000	8,000
Zube, Ervin H. Mallary, R. Institute for Man and Environment	750528	Alfred P. Sloan Foundation Development of a Mathematical Model for the Restoration of Strip-mined Land 3/12/75 - 8/31/75	mathematic-model, aesthetics, strip-mining	- 0 -	2,000	2,000
Zube, Ervin H. Institute for Man and Environment	750603	Massachusetts Executive Office of Environmental Affairs Coordination of Research and Advisory Services, State Environmental Agencies and Institutions of Higher Education 5/5/75 - 6/30/75	environmental-agencies, higher-education, consulting	- 0 -	600	600
Zube, Ervin H. Godfrey, Paul Institute for Man and Environment	750696	U. S. Department of the Interior, National Park Service CX-1600-5-0005 Microbiological Assessment on Recreational Ponds Waters in Cape Cod National Seashore, Effect on Bathers 5/10/75 - 12/31/75	recreation, Cape-Cod, swimming	- 0 -	8,385	8,385
Zube, Ervin H. Institute for Man and Environment	750733	U. S. Department of Agriculture, Northeastern Forest Experiment Station 23-634 Adaptions for Predictive Models for Scenic Quality to Metropolitan Landscapes 6/3/75 - 9/1/77	scenic-quality, urban-landscapes, forest-vegetation	- 0 -	8,200	8,200

A D D E N D U M

Investigator Co-Investigator Department	OCR No.	Funding Agency Grant/Contract Number Project Title Budget Period	Key Words	Indirect	Direct	Total
Berger, Bernard B. Water Resources Research Center	740593	U. S. Department of the Interior, Office of Water Research and Technology 14-31-0001-5021 Water Resources Research Center Annual Allotment 7/1/74 - 6/30/75	water-resources, water-research, institutiona-grant	- 0 -	110,000	110,000
Dixon, John R. Mechanical and Aerospace	750032	Alfred P. Sloan Foundation Programming a Computer Base for Professional Practice-Directed Engineering Education 10/1/74 - 9/31/75	engineering-education, computer-associated-instruction	1,300	13,000	14,300
Karasz, Frank E. Porter, Roger S. Polymer Science and Engineering	740050	National Science Foundation GH38347-A1 Research Program in Polymeric Materials 6/15/74 - 11/30/75	polymer-research, materials-research, departmental-grant	46,150	179,000	225,150
Karasz, Frank E. Porter, Roger S. Polymer Science and Engineering	740701	National Science Foundation GH38347-A2 Research Program in Polymeric Materials 6/15/74 - 12/31/75	polymer-research	3,250	7,000	10,250
Peterson, Gerald Physics and Astronomy	740529	Office of Naval Research N00014-67-A-0230-0009 Nuclear Structure Studies by the Scattering of High-Energy Electrons 7/1/74 - 12/31/74	high-energy-physics, electrodisintegration, National-Bureau-Standards, accelerator, elastic-scattering, resonance, magnetic-scattering	10,245	23,755	34,000
Vajdi, Mehran Nawar, W. W. Food Science and Nutrition	750228	U. S. Army Natick Laboratories DAAK03-75-G-0003 Determination of Exogenous High Molecular Weight Compounds in Beef 3/6/75 - 12/6/75	food-processing, lipid-degradation, beef-processing	- 0 -	3,500	3,500

ANNUAL REPORT

University of Massachusetts
at Boston

July 1, 1974 - June 30, 1975

Summary of State Funding by Subsidiary Accounts

Subsidiary Account		Fiscal 1974 Expenditures	Fiscal 1975 Expenditures
01	Salaries, Permanent	$10,520,300	$13,043,311
02	Salaries, Other	96,400	100,000
03	Services, Non-employee	1,345,800	1,402,000
04	Food		2,456
05	Clothing	6,100	7,000
06	Housekeeping Supplies	3,000	20,436
07	Lab and Medical Supplies	3,500	4,877
08	Utilities	1,184,000	2,080,000
09	Farm and Grounds	100	20,000
10	Travel	55,900	70,000
11	Advertising and Printing	31,000	61,000
12	Maintenance and Repairs	97,900	355,000
13	Special Supplies	1,010,900	443,000
14	Administrative Expenses	232,000	353,000
15	Equipment	59,300	302,900
16	Rentals	1,213,900	250,000
		$15,860,100	$18,514,980

Summary of Non-State Funds by Cost Element

Description	Fiscal 1974 Expenditures	Fiscal 1975 Expenditures
Salary and Wages	$1,350,000	$1,582,730
Services	80,000	481,140
Travel	15,000	31,700
Advertising & Printing	5,800	21,500
Maintenance & Repairs	1,100	1,800
Supplies	65,000	67,230
Administrative Expenses	205,000	116,900
Equipment	3,500	3,200
Rental	3,300	113,500
Miscellaneous	55,000	
Unallocated	889,600	1,464,506
	$2,673,300	$3,884,206

PERSONNEL

Faculty

	Fall, 1973	Fall, 1974
Full Time		
Professors	67	62
Assoc. Professors	107	114
Asst. Professors	138	150
Instructors	52	45
Lecturers	10	8
Total Full Time	374	379
Part Time		
Professors	1	2
Assoc. Professors	6	4
Asst. Professors	21	18
Instructors	19	10
Lecturers	104	95
Total Part Time	151	129
Total Faculty	525	508

Professional Staff

Chancellor	1	1
Vice Chancellor	3	3
Dean	3	4
Director	3	1
Assoc. Dean	3	1
Asst. Provost	1	---
Staff Administrator	14	7
Staff Associate	33	34
Staff Assistant	46	49
Engineer-Construction	2	2
Supt. Bldgs. & Grounds	1	1
Professional Tech.	4	4
Librarian I	12	13
Librarian II	5	8
Librarian III	4	3
Librarian IV	1	2
Library Director	1	1
Total Professional Staff	137	134

Classified Staff

	Fall, 1973	Fall, 1974
03	14	10
04	10	11
05	16	4
06	69	60
07	61	62
08	8	15
09	51	62
10	42	8
11	33	66
12	13	26
13	7	20
14	10	12
15	1	2
16	2	5
18	---	1
Total Classified Staff	337	364
TOTAL PERSONNEL	999	1,006

	MAJORS SEPTEMBER, 1973	MAJORS SEPTEMBER, 1974
Anthropology	86	113
Art	176	210
Biology	546	642
Chemistry	124	131
Classics	22	22
Economics	237	266
English	646	677
French	126	122
German	35	33
History	368	364
Italian	34	27
Mathematics	264	305
Music	74	109
Philosophy	47	60
Physics	47	56
Politics	321	344
Psychology	812	896
Russian	26	33
Sociology	616	687
Spanish	89	109
Theater Arts	32	78
TOTAL	4718*	5284*

*does not include undeclared majors

Summer Session Enrollments

Undergraduate

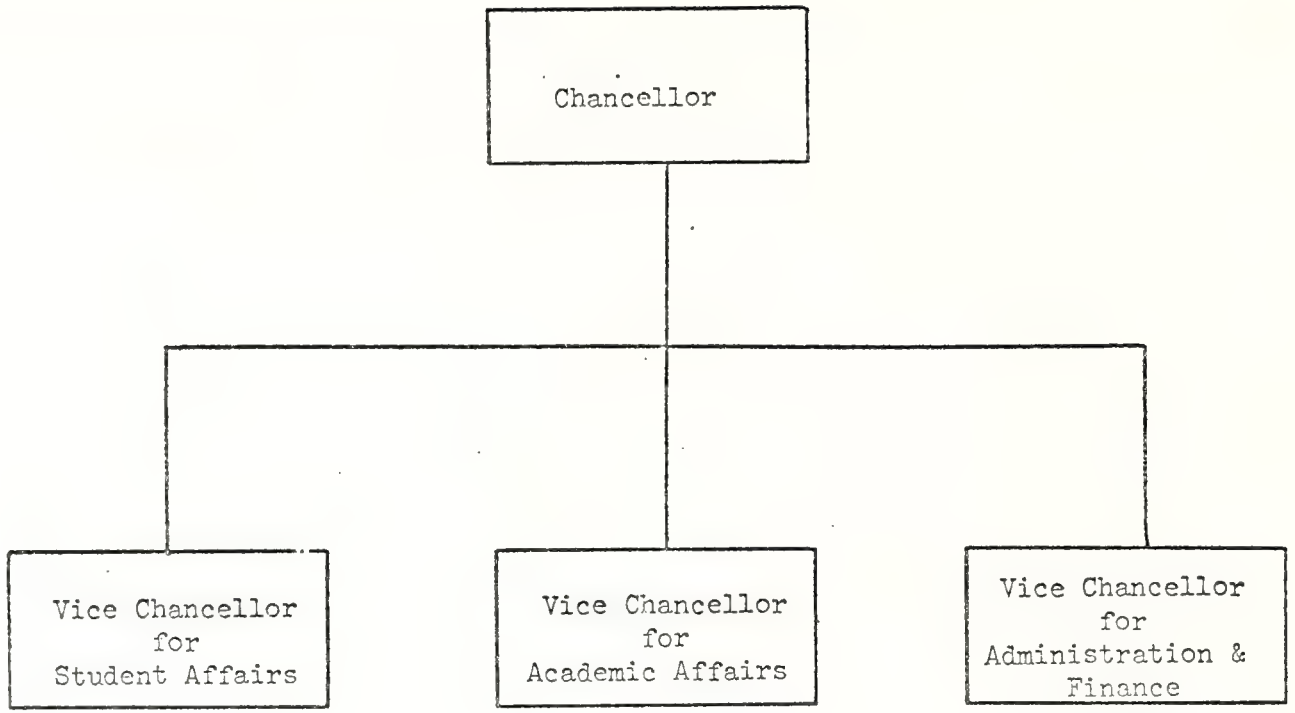
	Students Enrolled	# of Sections	Course Registration
1973	1,281	74	1,958
1974	1,729	93	2,663

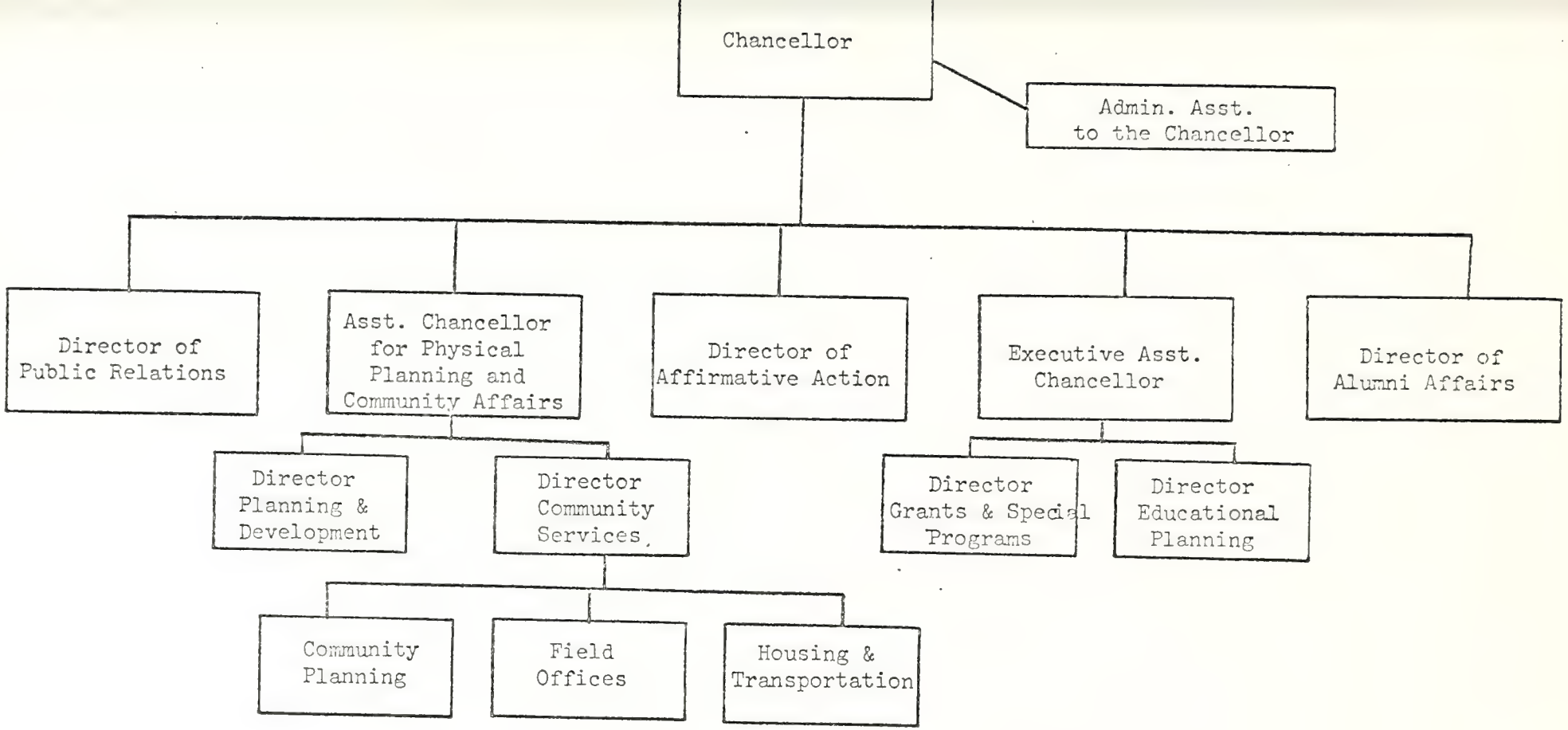
Graduate

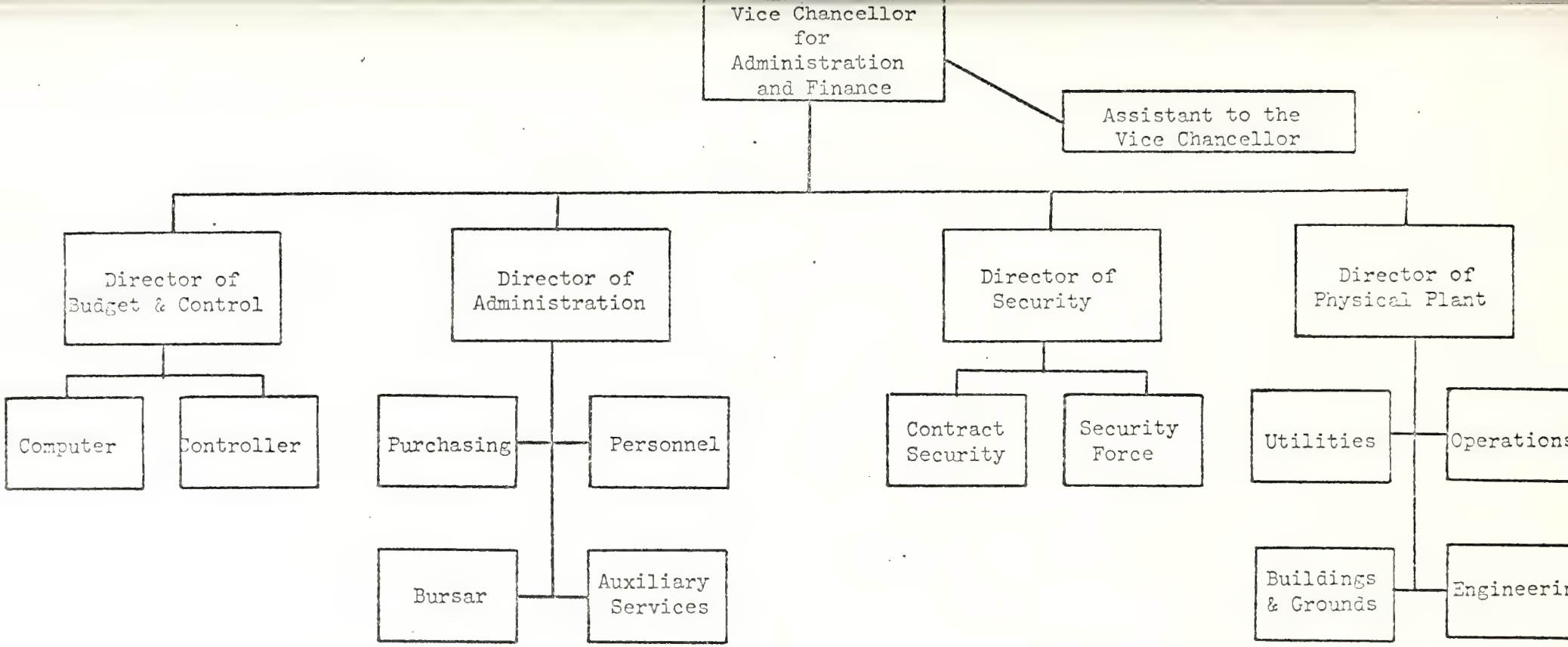
	Students Enrolled	# of Sections	Course Registration
1973	12	3	30
1974	10	3	19

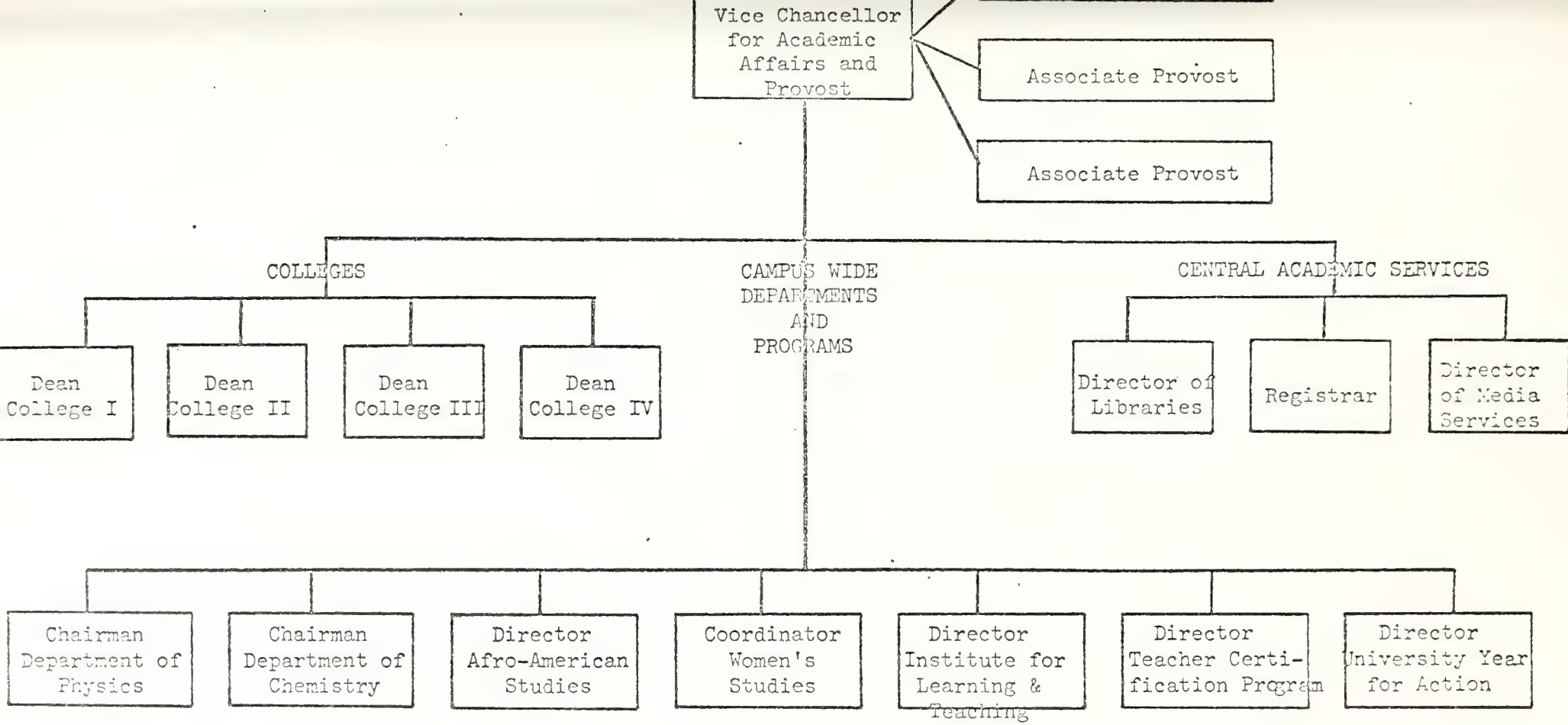
Enrollments

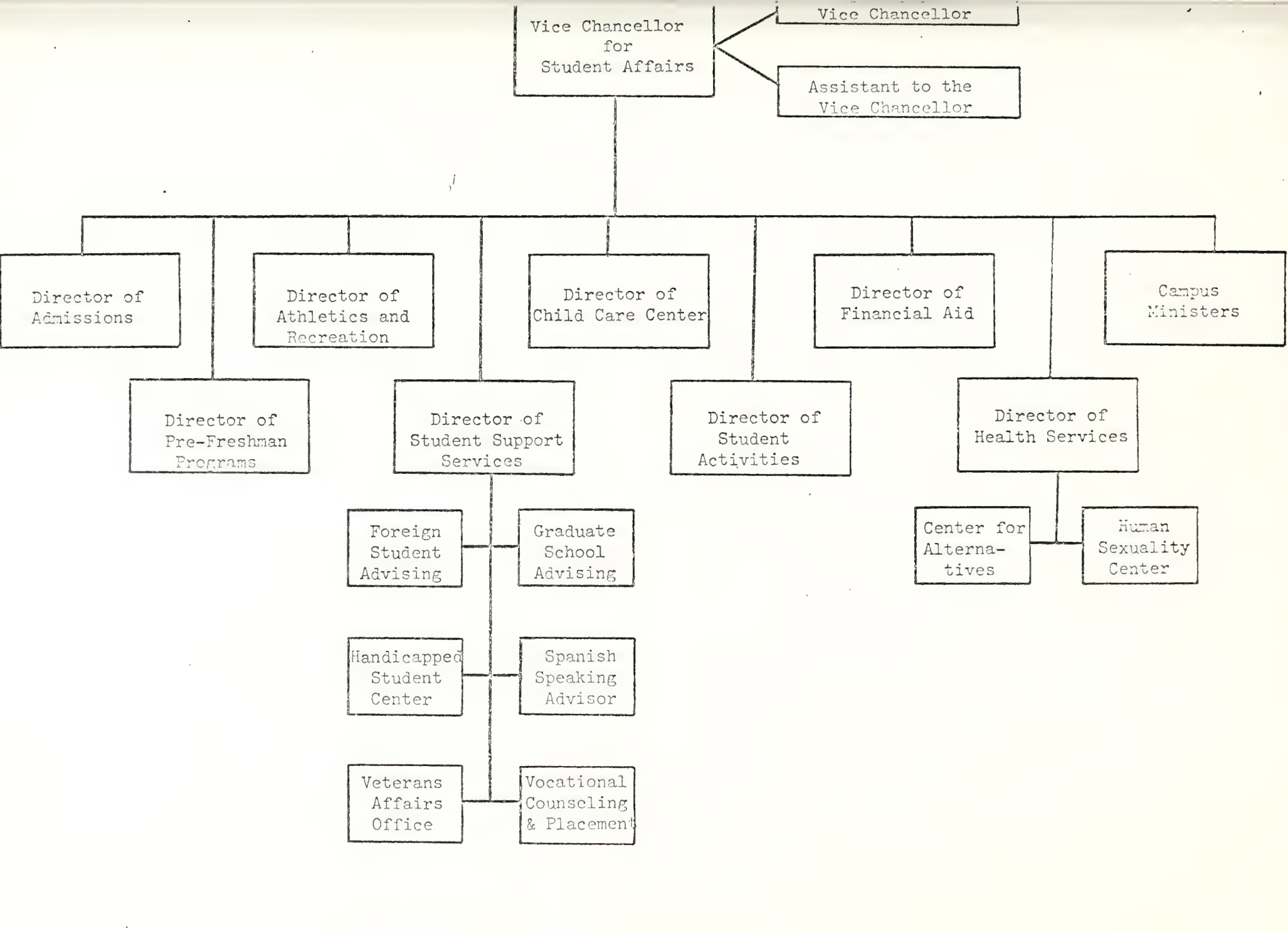
	Fall, 1973			Fall, 1974		
	Headcount Enrollments	FTE Faculty	Head Count Enrollments Per FTE Faculty	Head Count Enrollments	FTE Faculty	Head Count Enrollments Per FTE Faculty
Anthropology	1,023	13.2	77.50	1,021	14.5	70.41
Art	800	10.5	76.19	936	12.0	78.00
Biology	1,322	25.7	51.54	1,675	26.5	63.20
Chemistry	656	15.7	41.78	796	15.83	50.28
Classics	633	7.0	90.42	833	7.83	106.38
Economics	1,013	14.5	69.86	1,339	14.31	93.57
English	2,870	53.0	54.15	3,873	60.51	64.00
French	873	18.8	46.44	1,214	16.66	72.98
German	372	8.7	42.76	370	7.33	50.47
History	2,241	31.0	72.29	2,486	32.33	76.89
Italian	166	4.3	38.60	168	3.67	45.77
Mathematics	1,924	29.8	64.56	2,105	28.83	73.01
Music	606	7.3	83.01	828	7.50	110.40
Philosophy	593	8.7	68.16	766	7.23	105.94
Physics	1,075	14.7	73.30	1,581	16.20	97.59
Politics	1,084	14.8	73.24	1,145	14.59	78.37
Psychology	2,242	28.3	79.22	2,622	27.75	94.48
Russian	339	5.4	62.78	314	5.67	55.37
Sociology	2,037	27.3	74.62	2,245	26.16	85.81
Spanish	691	11.7	59.06	695	14.99	46.42
Theater Arts	300	4.2	71.43	379	6.16	61.52
College III				376	33.00	11.39


Chancellor
Vice Chancellor for Student Affairs
Vice Chancellor for Academic Affairs
Vice Chancellor for Administration & Finance


Chancellor
Admin. Asst. to the Chancellor
Director of Public Relations
Asst. Chancellor for Physical Planning and Community Affairs
Director of Affirmative Action
Executive Asst. Chancellor
Director of Alumni Affairs
Director Planning & Development
Director Community Services
Director Grants & Special Programs
Director Educational Planning
Community Planning
Field Offices
Housing & Transportation


Vice Chancellor for Administration and Finance
Assistant to the Vice Chancellor
Director of Budget & Control
Director of Administration
Director of Security
Director of Physical Plant
Computer
Controller
Purchasing
Personnel
Bursar
Auxiliary Services
Contract Security
Security Force
Utilities
Operations
Buildings & Grounds
Engineeri


Vice Chancellor for Academic Affairs and Provost
Associate Provost
Associate Provost
COLLEGES
CAMPUS WIDE DEPARTMENTS AND PROGRAMS
CENTRAL ACADEMIC SERVICES
Dean College I
Dean College II
Dean College III
Dean College IV
Director of Libraries
Registrar
Director of Media Services
Chairman Department of Physics
Chairman Department of Chemistry
Director Afro-American Studies
Coordinator Women's Studies
Director Institute for Learning & Teaching
Director Teacher Certification Program
Director University Year for Action


Vice Chancellor
Vice Chancellor for Student Affairs
Assistant to the Vice Chancellor
Director of Admissions
Director of Athletics and Recreation
Director of Child Care Center
Director of Financial Aid
Campus Ministers
Director of Pre-Freshman Programs
Director of Student Support Services
Director of Student Activities
Director of Health Services
Foreign Student Advising
Graduate School Advising
Handicapped Student Center
Spanish Speaking Advisor
Veterans Affairs Office
Vocational Counseling & Placement
Center for Alterna-tives
Human Sexuality Center

Annual Report, College I
1974-1975

College I worked during the academic year 1974-75 to develop programs in the areas called for by the Collegiate Long-Range Planning Report, to evaluate and organize its internal use of resources in light of new pressures for accountability and in the light of a projected rollback of the College to an enrollment of 2500 students, and to improve the delivery of services in the areas of academic student support and tutorial help.

1. The College took a number of specific steps in enacting the recommendations of the Collegiate Long-Range Planning Report, as approved by the College in Spring, 1974. The report called for the establishment of Freshman seminars to augment and eventually to replace the primary Freshman English series of writing courses, and the College Senate appointed a committee to begin implementing that program. The report also called for a series of Interdisciplinary Freshman Courses; in addition to repeating its offering of the Interdisciplinary course in Law and Justice, the College offered new interdisciplinary courses in "Learning and Schooling" and in "Industrial Society". The report called for the establishment of new concentrations, especially in institutional and area studies; during the academic year 1974-75, the College I Senate approved four such concentrations, all of which had been in the planning stage for at least one year. Concentrations were approved in Law and Justice, in American Studies, in Latin-American Studies, and in Bio-Behavorial Studies. Such concentrations are taken by students in addition to their departmental major; they are administered by a Director and a faculty-student Committee; and they typically involve the offering of one or more general courses in the field of the concentration in addition to the relevant departmental courses taken by the student. In addition to approving these concentrations, the College expanded its offerings in the field of Asian Studies by adding instruction in Japanese and in intermediate Chinese, and by approving "Great Issues of East-Asia", to be first offered in Fall, 1975. The Law and Justice Committee of the College, with the support of various academic departments, prepared an extensive proposal for a large planning grant from the National Endowment for the Humanities. In addition, the Law and Justice program prepared an Interdisciplinary Course in Law and Justice to be taken by upperclassmen as an alternative to the double-credit Freshman course, which is designed to pay particular attention to the basic skills needs of Freshmen. The Law and Justice Program also continued to develop its special sequence of mini-courses.

The Long-Range Planning Report redefined the core curriculum of the College, so that each student is asked to take twelve courses from among six academic areas, with no more than three courses in any one area counting towards the total of twelve. The six areas are (a) "historical and cultural studies"; (b) "foreign languages"; (c) "the arts, philosophy, and literature"; (d) "mathematics, statistics, and computer language";

(e) "natural science"; (f) "social and behavorial science". The College Senate, on recommendation of a committee of department Chairpersons, approved a list of courses falling into each of these categories. The Long-Range Planning Report of the College also called for substantial reorganization and upgrading of the College's academic support and tutorial programs; the College's response to this mandate is discussed under student affairs (section four, below).

In response to the provisions of the New Directions Report of the Boston Campus, the College began working on the formulation of an extended-day or "evening" program. This program would involve offering, in the late afternoon and evening, courses, programs, and majors that already form part of the College's curriculum; thus the College would not develop a new program for evening students. The projected clientele for these offerings would include both regular students now enrolled in the College's day program and new students who might seek University courses offered in the evening. Basically, therefore, the evening program is a matter of scheduling courses in a different way, and the College's interest in the program derives from its concern for the effects of our present schedule, especially the tendency of students to take their courses during a block of time during the morning (8:00 am to 12:30 pm) and to avoid courses in the late afternoon. The institution of an evening program will create two such blocks of time, and will allow the college to use its resources more effectively. Nonetheless, a variety of educational decisions must be made about the kinds of courses to be offered in the evening, their relation to core and major requirements, and their relation to the interest of students who might seek courses at that time. We also need to determine the appropriate critical mass of students for such a program to operate effectively. A committee of the College I faculty is presently considering these educational matters, as well as the ability of the collegiate departments to offer evening programs and courses. The Committee will make its decision in early Fall, 1975, and the program is scheduled to begin in Fall, 1976.

Thus the College has continued to develop in the directions proposed by the Long-Range Planning Report and by the "New Directions Report" of the University. But a major characteristic of that development has had to be some attention to the limitations of the College's resources and the consequent need for academic development that is not contingent on the availability of new faculty positions.

2. The College, like other administrative units of the University, faced new and increasing requests for accountability in its use of faculty resources; it faced the likelihood of significant rollback in its size, in accordance with trustee and university governance action; and it faced the possibility of significant stringency in its academic budget. In several ways the College, acting through its Dean and Department Chairpersons, sought to respond to these questions of resources.

The Dean and Department Chairpersons developed and approved policy recommendations concerning the appropriate course load reductions for various administrative and other duties performed by the faculty, a series

of recommendations that became the basis for Campus policy in this area. More significantly, the Chairpersons developed a series of guidelines governing rollback of faculty positions scheduled for the academic year, 1976-77. These guidelines seek to protect those programs that the College has just initiated, while at the same time protecting particularly heavily-enrolled departments from so high a student-faculty ratio as to affect adversely the quality of their offerings. The guidelines thus establish dual criteria of programmatic need and need generated by enrollment, and they place highest priority on preserving positions that are justified by both criteria. The implementation of these guidelines must be accompanied by a process wherein the use and scheduling of resources and the nature of the demands placed upon them are carefully monitored.

In a governance action related to the use of resources in the College, the College I Senate rejected a proposal of the Mathematics Departments of College I and II that they be allowed to reunite, to withdraw from the two liberal arts colleges, and to serve each of the various academic units of the University from an administratively centralized position. A similar request from the College I Biology faculty was denied when the College II Biology faculty rejected the proposal. These actions in Biology and Mathematics stabilize, for the time being, the departmental structure of the two colleges of liberal arts.

3. College I had this year the largest number of tenure recommendations in its history, and the quality of the candidates for tenure reflected the superior level of hiring possible in the late 1960's. Of the seventeen candidates for tenure, sixteen were recommended positively to the Dean's Office, and fourteen were recommended positively by the Dean, after consultation with ad advisory committee of the faculty, to the Vice Chancellor for Academic Affairs. The College also made four recommendations for promotion to the rank of Professor and nine recommendations of promotion to the rank of Associate Professor.

Many of the positions becoming vacant in the College were frozen in order to effect budgetary savings, and hence were unavailable for recruitment and filling for the academic year 1975-76. But four positions were allocated to the College for the hiring of full-time faculty. These positions were used, in accordance with the guidelines developed by Department Chairpersons and the Dean, for departments with both programmatic need for the position and heavy student enrollments. In one case, that of Law and Justice, the position was used to establish directorship of a major new program which the College is actively developing. In addition to these four full-time positions, the College has used several partial positions to support heavily enrolled departments.

The College has been concerned that the effect of rollback and continued student pressure may seriously affect the ratio of students to faculty in the College. The College regards this as a serious matter, for the nature of its student body requires careful attention to the academic needs of individual students, especially in introductory courses. Student-faculty ratio will continue to be a matter of grave concern as the College enters a period of sharply reduced resources.

4. Academic Support Services, Tutorial, and other Student Support Services. College I commenced the academic year with the same staff in place that had worked as a team through 1973-74. Unfortunately we lost through advancement a valuable counselor in the Dean's Office, whose departure left void a position primarily used for the academic advising and counseling of minority students and students coming to the College through Special Admissions, VET Program, Prison Release, and pre-Freshman Programs.

Academic support programs initiated previously continued to grow along lines suggested by the College I Long-Range Planning document. The use of faculty released time for supervision of tutorial programs, training and selection of tutors, and "adjunct" support for specific courses was augmented slightly so that released time was deployed among the following departments: Economics, Biology, Sociology, English as a Second Language, Psychology, Academic Support, Anthropology, and Mathematics. Released time assistance was also available for Freshman English and one large introductory course, Psychology 101.

In addition to coordinating academic support efforts, staff of the Dean's Office devoted large portions of time to individual sessions with students experiencing reading problems and joined with the Biology Department to develop an academic support adjunct component for Introductory Biology, which will be carried on, it is hoped, the coming year by the Biology Department alone. Writing workshops were developed and offered in cooperation with the English Department.

For 1974-75, there was an increase of roughly 33% in funding of tutorial assistance over the previous year and a corresponding increase in demand for tutors. Such tutoring clearly creates its own demand somewhat, as is the case with psychological counseling. The College will be forced to accept a lesser level of funding in the next year and to devise more efficient systems for its use. To this end, the College contracted with the Institute for Learning and Teaching for an evaluation of the several forms tutoring takes in College I programs and courses. This report should be ready by August.

Several improvements were made in the academic advising processes of the College, but much remains to be done in this area. For the first time, students are required to declare their major by applying directly to the academic department they choose. Thus, the department not only has an accurate record, but it's able to assign students to advisors, and to be sure that vital information on the major is in the hands of the students. Upon recommendation of the College's Advising and Counseling Committee, departments will be asked to require majors to have student programs on file with the department.

The College has begun, with less than complete success, to arrange for new transfer students the same individual advising sessions prior to registration that are now provided for all incoming Freshmen. Matching of new students to "permanent" advisors, again on committee recommendation,

will be delayed until late September in order to allow students to request by name instructors they have come to know in classes.

In general, in the area of student academic support service, the College faced problems comparable to those in other areas: greater demand for expanded service in the face of likely budgeting stringency. And in this area, as in others, the College must carefully evaluate the effectiveness of its use of resources.

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Academic and Curricular Affairs

1. Humanities Program on Nantucket The first semester of the humanities program on Nantucket is now completed and the reports from both students and Islanders who participated are enthusiastic. The evaluation committee indicates that its reactions are "very strongly favorable" and its report will soon be forthcoming. The University presence on the Island is widely known and enthusiastically accepted.

Fifteen student participants for the Fall 1975 semester have been selected, and as a group are superior to those of last spring in terms of GPA and motivation for undertaking research projects on the Island. The Islanders, themselves, feel that the program has been so successful that they would like to see the University continue to make educational opportunities available there.

Although NEH suggested in its original grant award that it might be interested in providing additional funds for two more semesters, depending upon the demonstrated value of the present program, outside funding does not seem now to be likely. The University, therefore, will have to decide early in 1975-76 whether to underwrite continuation of this valuable program.

2. Center for Social and Evaluation Research Professor Marcia Guttentag, College II Psychology, is in the process of organizing a Center for evaluation and policy analysis. The Center will in the future offer undergraduate and graduate training related to evaluation and policy analysis. Students will use the techniques of evaluation learned at the Center for on-site evaluations of social and educational programs, and thereby compile data for the analysis of social and urban policies.

3. Study of Religion Program The College II Study of Religion Program now has two full-time faculty members. This provides the program with a solid foundation and allows for a more stable and complete program of curricular offerings.

4. Option C -- The Core Curriculum The core curriculum proposed by Dean Steamer was approved by the College II Senate as Option C. Students within the College now have three different curricular patterns (tracks) to select from in planning their program of study. Option C curriculum attempts to strengthen students' basic skills and to broaden their horizons in the liberal arts.

A Commission on the Core Curriculum was established by the Senate (in response to the minority report of the Curriculum Committee) to study different forms of general education for the liberal arts and to present several coherent curriculum proposals to the College for further study and possible adoption during 1975-76.

5. College Orientation Project Although COP, begun as a College II program, is now a University-wide project, College II faculty and staff once again actively supported it by offering core city students workshops in which they could participate, briefing sessions on the nature and purpose of undergraduate education, and the opportunity to visit classes in session.

The kinds of experiences provided the students and their enthusiastic responses confirm once again the value of this program for all participants.

6. Freshman Year Review Committee The Committee charged with review of the freshman program has proposed and will sponsor a one-credit course which will provide orientation in an academic context for all mid-year incoming freshmen. The formal class meetings will be open to all students but discussion sections will be limited to students enrolled for credit. The Committee was also instrumental in establishing a team of 20 faculty members who will serve as special Freshman Advisers in 1975-76, after having completed a series of informational meetings and briefing sessions during the spring and summer of 1975.

Advising and Tutorial Affairs

An Adjunct Network for Basic Skills instruction was begun this year as a pilot program in the Social Science area. A program was designed in order to equip students with the specific study skills necessary to complete successfully the introductory courses in which they were enrolled. In addition to small group seminars with a skills specialist and student tutors, individual tutorial meetings were scheduled at least once a week.

If funds are made available by the Fund for the Improvement of Post Secondary Education, NEW, the Adjunct Network will develop an integrated program in Basic Skills instruction in five academic areas. The Network will form Adjunct Teams which will include a faculty member, undergraduate tutors and a skills specialist. These teams will be attached to introductory courses.

ANTHROPOLOGY DEPARTMENT

Stuart Berde, Ph.D., Assistant Professor: Ph.D. dissertation completed. "Melanesians as Methodists: Economy and Marriage on a Papua New Guinea Island." Paper given at Amer. Anthro. Assoc. Meeting in New Orleans 11/27/73:"History, Christ and Canoes"; Paper presented at Northeastern Anthro. Assoc. Meeting in Worcester: "Who Takes The Blame?--Cultural Rationalizations for Exchanges Failures." Work in progress: "Melanesian Peoples located in the Milne Bay Area, Papua New Guinea.

Golamreza Fazel, Ph.D., Assistant Professor: Review of Reinhold Loffler's "The National Integration of Boir Ahmad" in Iranian Studies (forthcoming). Papers presented: "The Economic Bases of Political Leadership Among Pastoral Nomads: the Case of the Boyr Ahmad Tribe of Southwest Iran." Delivered to Amer. Anthro. Assoc.; "The Impact of the National System of Education Upon the Nomadic Societies in Iran." Presented to Soc. for Applied Anthro. Work in progress: "Exogamy, Polygyny and Successional Conflicts Among the Middle Eastern Nomads"; "The Institution of Kar-chaq-kun or Cultural Brokers Among the Boyr Ahmad"; "Social, Ecological and Demographic Effects of the Settlement of Nomads in Iran."

Michael Gibbons, Jr., Ph.D., Assistant Professor: Ph.D. dissertation completed. "Some Anatomical and Quantitative Approaches to the Evolution of Hominid Speech Generation Potential." Reviews in: American Notes and Queries; Library Journal. Publication: "The Evolution of Hominid Speech." Dissertation Abstracts International, Vol. 35, No. 7. In preparation: "The Phyletic Position of Oreopithecus." Referee for Prentice Hall on S.I. Rosen's "Introduction to the Primates." Professional talks: "Human Speech Generation Potential and Its Relation to Orthodontic Problems" presented to Univ. of Penn.; "Current Theories in Primate Evolution" delivered to Peabody Museum of Natural History. An expedition in search of Primate fossil bearing localities into an unsurveyed portion of the Big Horn Basin. This preliminary survey was sufficiently successful to warrant planning a full summer field season for 1975.

David Landy, Ph.D., Professor and Chairman: Paper presented to Amer. Anthro. Assoc: "Concepts and Theories of the Healer's Role." Completed preliminary work for book on medical anthropology. Refereed manuscript: "Man-Child: Introduction to Cultural Anthropology" by Wallace and Kemper. Reappointed for third two-year term to the journal Behavioral Science Manuscript Review Committee.

Charles M. Nelson, Ph.D., Assistant Professor: Papers presented at Cambridge Archaeology Seminars: "The Concept of Style in Relationship to the Evolution of Cultural Behavior;" "Can the Concept of Style be Applied to Lithic Analysis" by Ruth Tringham (Discussant); "Archaeological Epistomologies and Ideologies." Commentator on the archaeological significance of the Boston Harbor Islands on a four hour cruise of the Islands sponsored by the Boston Harbor Associates.

ART DEPARTMENT

Ruth Butler, Ph.D., Associate Professor: Completed book Western Sculpture, Definitions of Man. Paper presented at MIT symposium "The Political Sculpture of Francois Rude." Work in progress: organizing material for a book for Prentice-Hall in "Artists in Perspective" series.

Bates Lowry, Ph.D., Professor and Chairman: Founded Dunlap Society to broaden and encourage the awareness and study of American Art.

BIOLOGY DEPARTMENT

Ruth Bennett, Ph.D., Associate Professor: Two manuscripts in preparation: "Sodium and Lithium Movements in Cockroach Nerve Cords," "Na+ Activity of Insect Blood."

Lorraine Larison, Ph.D., Reviews: "Darwin and His Critics" in American Scientist; "On Being a Woman in Science" in The Observer. Genetics text for non-science majors, for Wadsworth Publishing. Book, The Society of Life: A Natural History of the Cell for the New York Times (Book Division).

Martha R. Matteo, Ph.D., Associate Professor: Invited participant in "Third International Conference on Isozymes" at Yale. Publication by Academic Press: "Biochemical Characterization of Esterase Isozymes of the Marine Snail, Littorina littorea." Awarded matching funds grant from NSF for Instructional Equipment ($7,200) for the Nantucket Field Station.

David Policansky, Ph.D., Assistant Professor: Paper published "Sex Ratio, Meiotic Drive and Group Selection in Drosophila pseudoobscura" in American Naturalist. Invited seminars: May apple work, Harvard; Drosophila, Florida State University.

Walter Rosen, Ph.D., Professor: Linnean Society Symposium on "Biology of the Male Gamete" London; Reviewer for Science; Grant reviewer for NSF; Editorial Consultant for Biology text being published by Holt, Reinhart, Winston.

John H. Schultz, Ph.D., Associate Professor: A grant proposal was generated and sent to NSF for the purpose of supporting a year-round undergraduate teaching and research program in environmental sciences to be offered during the academic year on Nantucket Island.

Claire Van Ummersen, Ph.D., Associate Professor: Wrote and submitted contract proposal to HEW, Food and Drug Administration. Approved for funding. Attended conference on the Biological Effects of Non-ionizing Radiation sponsored by The New York Academy of Sciences. Review in Journal of Microwave Power. Evaluated project proposal for Radiological Health Research and Training Grant Review Committee, Bureau of Radiological Health, HEW.

Nevin Weaver, Ph.D., Professor and Chairman: Publication: "Control of Dimorphism in the Female Honeybee. Two Methods of Rearing Larvae in the Laboratory and of Preserving Royal Jelly." J. Apic. Res. 13(1):3-14. Continued research on pheromoneallomone interactions among social insects. Editorial Board, Journal of Agricultural Research.

H. Garrison Wilkes, Ph.D., Associate Professor: Paper presented at meeting of Soc. for Economic Botany: "Ethnographic Data in Studying Introgressive Hybridization in Mexican Cornfields." Monthly trips to Washington, D.C. for the National Research Council of the National Academy of Sciences. Reviewer: NSF proposals; papers for Economic Botany and Evolution. Grant awarded: Hybridization and the Genetic Structure of Maize Fields in Mexico and Guatemala - funded. Invited as a speaker at the Symposium "The importance of mutation, polyploidy and introgressive hybridization in the evolution of cultivated plants" by the Acad. of Sciences of the USSR at International Botanical Congress, Leningrad.

CLASSICS DEPARTMENT

Harold Gotoff, Ph.D., Associate Professor and Chairman: Article, "Tibullus Nunc Levis Est Tractanda Venus" was accepted by Harvard Studies. In progress: Final draft of a stylistic commentary on Cicero's pro Archia . Book on Ciceronian Prose Style.

George Koniaris, Ph.D., Professor: Finishing critical edition of Maximus Tyrius.

Blaise Nagy, Ph.D., Assistant Professor: A five pg. article, "A Note On Hellenistic Orthography," accepted for publication by Classical Philology. Review of Dennis Proctor's Hannibal's March in History in American Classical Review. A 14-page article currently under consideration by Greek, Roman, Byzantine Studies and a 7-page article is about to be submitted to The Harvard Theological Review.

Frank Nisetich, Ph.D., Assistant Professor: Article, "Olympian 1. 8-11, An Epinician Metaphor." in Vol. 79 of Harvard Studies in Classical Philology. Won the Chase Going Woodhouse Poetry Contest. Winning poem "Turlough House" publ. in Red Fox Review. Poem, "Teton Changes" publ. in Living Wilderness.

ENGLISH DEPARTMENT

Martha Collins, Ph.D., Assistant Professor: "The Self-Conscious Poet: The Case of William Collins" publ. by English Literary History. In progress: Rev. of essay on Henry James; Res. on Harriet H. Robinson, 19th C. Amer. writer and feminist, some of whose letters came into my possession. Research on Willa Cather. Cont'd. rev. of "The Care and Feeding of Living Things" (poetry manuscript).

Mary Doyle Curran, Ph.D., Professor: Novel "The Root and the Branch," 1 chapter publ. in Mass. Review. In progress: Article, "Ireland Revisited," Short stories "The Holyokers".

Philip Finkelpearl, Ph.D., Professor and Chairman: In progress: Book on the Elizabethan dramatists, Beaumont and Fletcher.

Susan Horton, Ph.D., Assistant Professor: Work in progress: Rev. of dissertation to be publ. by Columbia Univ. Press, a 250-p. Dickens manuscript. Grant proposal for a new Dickens project.

Emerson Marks, Ph.D., Professor: Review: Wallace Jackson, Immediacy: the Development of a Critical Concept from Addison to Coleridge. (1973) in The Scriblerian, VI (Spring 1974), 96. Article, "Sainte-Beuve's Portraiture," L'Esprit Createur (Spring 1974).

Margaret McGavran, Ph.D., Assistant Professor: Article, "Transcending the Domestic Sphere," in Men, Women, And Issues in American History, ed. by Howard Quint and Milton Cantor.

Shaun O'Connell, Ph.D., Associate Professor: Nine reviews in the following journals: Sunday Herald Traveler, Los Angeles Times, The Mass. Review.

Alvin Ryan, Ph.D., Professor: In progress: Two scholarly projects: "How do we assess the religious vision, the theological or doctrinal assumptions of a literary artist?"; "Attempt to define the nature of the religious vision or perspective in Robert Frost's poetry."

Cornelia Veenendaal, Ph.D. in progress, Assistant Professor: Book, TRANS-SIBERIAN RAILWAY pub. by Coop. Press, Alice James Books.

FRENCH DEPARTMENT

Jean Collignon, Agrégation, Professor and Chairman: Book review on The Novels of Francois Mauriac, by J.E. Flower in the Romanic Review, Vol. LXIVm No. 4, Nov. 1973. Wrote the planning document of the French Dept. College II in the Fall of 1973.

Jeanne Grillet, Doctorate 3rd cycle, Assistant Professor: "The Patois Situation in France" in Anthro. Linguistics, Indiana Univ. Work in Progress: Glossary of of Chomsky's terminology. Etude des variétés du Francais régional, sponsored by the Centre National de Recherche Scientifique. "Le Francais-Landais" in the Journal of Societe des Professeurs de Francais en Amerique, Fall 74.

Rodney Harris, Ph.D., Assistant Professor: "The English Translations of Cesaire's Theater" in Cahiers césairiens, spring, 1974. Paper presented at Northeastern Mod. Lang. Assoc. mtg., "Role of the Dramatist in French and English-speaking West Africa." Completed bibliography of works on Aimé Césaire for Cabeen: Critical Bibliography of Twentieth Century French Literature.

Michel Philip, Agrégation, Professor: Short story published in Minuit; Review in Quinzaine Litteraire: 1789, Les Emblemes de la Raison, by Jean Starobinski. Review of Lectures de Lautrémont in May-June issue of Revue d'Histoire Litteraire de la France.

Georges Michel Sarotte, Doctorat d'Etat, Assistant Professor: Dissertation accepted for publication by Editions Flammarion (Paris) in condensed form: "Etat-es-Lettres et Scienc Humaines." Article on Jack London in Revue Litteraire-Europe.

Brian Thompson, Ph.D., Assistant Professor: Paper presented at mtg. of the Malraux Society in St. Louis: "Oedipus Revisited: The Image of Blindness in Malraux's Novels." Trans. paper "Distinctive Elements of Peasant Culture in the Romanian Popular Ballad," by Adrian Fochi in Redgrave Press. Critique of the Festival of Kertalg in Chanson. Interview in Chanson "Jean-Roger Caussimon: un coeur pur."

HISTORY DEPARTMENT

Paul Boller, Ph.D., Professor: American Transcendentalism, 1830-60: An Intellectual Inquiry, pub. G.P. Putnam's Sons, 1974. Chapter on Changing Religious Views in Eighteenth-Century America for a book, edited by Howard Quint and Milton Cantor, pub. George A. Dorsey Company.

Paul Bookbinder, Ph.D., Assistant Professor: Paper "The Crime of Being: The German Legal System and the Extermination of the Jews" published in the Proceedings of Hebrew Colleges' Conference. Article dealing with the "Influence of Italian Fascism or Wimar Germans" in the March issue of Italian Quarterly.

Clive Foss, Ph.D., Assistant Professor: Publications: "Byzantine and Turkish Ephesus" submitted to Austrian Academy of Sciences. "Greek Sling Bullets in the Ashmolean Museum" in Journal of Hellenic Studies. "The Destruction of Sardis in 616 and the Value of Evidence" submitted to the Austrian Byzantine Yearbook. "The Persians in Asia Minor and the End of Antiquity" in English Historical Review. Grants awarded: Visiting fellowship to Dumbarton Oaks Research Institute. Grant-in-aid from Amer. Council of Learned Societies.

Frances Hoffman, Ph.D., Assistant Professor: Monograph in Michael, published by the University of Tel-Aviv. Commissioned to prepare an article for a Fetschrift to honor Alexander Altmann.

Michael McCahill, Ph.D., Assistant Professor: Book on the House of Lords in the late 18th century submitted to the Oxford University Press. An article on the peerage's involvement in the industrial revolution is being prepared for The Business History Review.

William Percy, Ph.D., Book review for Speculum. In progress: Western Civilization Text coauthored with Edward W. Fox of Cornell for McGraw Hill. Africa and the West, acknowledged by author in Preface (Berkshire Studies in History).

Louis Ruchames, Ph.D., Professor: Biography of Louis Ruchames in The Writers Directory, 1974-75, pub. by St. Martin's Press, and in Community Leaders and Noteworthy Americans, pub. by Amer. Biographical Institute. Review of The Political Status of the Negro in the Age of FDR, by Ralph J. Bunche, ed. Dorothy W. Granthem, in Journal of Amer. History. Article "Mordecai Manuel Noah and Early American Zionism," in Amer. Jewish Historical Soc. Quarterly. Chairman, program committee, of the Annual Mtg. of the Amer. Jewish Historical Soc.

Lester Segal, Ph.D., Associate Professor: Publication: "Abbe Lenglet du Fresnoy: The Treason of a Cleric in 18th Century France," in Studies on Voltaire and the Eighteenth Century, ed. Theodore Besterman, CXVI, 1973.

Marshall S. Shatz, Ph.D., Associate Professor: Review in Amer. Historical Review. In press: Review of Arthur Lehning, ed., Archives Bakounine, Vol. IV (Archiv fur Sozialgeschichte, Bonn). Review of Michael Confino, Violence dans la Violence (Canadian-Americ. Slavic Studies, Pittsburgh). Review of Arthur Lehning, From Buonarroti to Bakunin (Canadian-American Slavic Studies, Pittsburgh). In progress: Signposts: A Collection of Articles on the Russian Intelligentsia, trans. and ed. (with Prof. Judith Zimmerman). Rev. of book edition of a work previously serialized in Canadian Slavic Studies (Montreal). "The Young Bakunin," a biographical study of Michael Bakunin. "Soviet Dissent in Historical Perspective," a short book tracing the roots of contemporary Soviet protest and dissent back to the 18th Century.

MATHEMATICS DEPARTMENT

Bernice Auslander, Ph.D., Associate Professor: Completed paper: "Reckoning the Radical" with Colin Godfrey. In progress: Precalculus text, suitable for self-paced or traditional teaching methods, Academic Press and Scott Foresman. Invited addresses: Queens University, Mathematics Colloquiam, "Some Results in the Theory of Brauer Groups," Amer. Math. Soc. "Equal Opportunity, Special Privilege, or Fair Redress," in Cambridge, Mass. International Congress of Mathematicians, Vancouver, B.C., "A Variation on the Self-Paced Method of Teaching Elementary Mathematics." Referee for Transactions of Amer. Math. Soc., Pacific Journal of Mathematics.

Ethan Bolker, Ph.D., Professor: Publication: First Year Calculus (co-authored with Joseph Kitchen), Addison Wesley, Reading, Mass. In press: "Cont'd. Fractions and Pell's Equation," Amer. Math. Monthly; "Simplicial Geometries and Transportation Polytopes," Journal for Combinatorial Theory. Papers presented: Amer. Math. Soc. Anual Mtg., San Francisco; International Congress of Math., Vancouver.

Ernest Elyash, Ph.D., Associate Professor: Research: continuing work with Naval Underwater Systems Center, New London, Conn.

Matthew Gaffney, Ph.D., Professor: The annotated bibliography of expository literature in mathematics prepared for the Conference Board of the Math. Sciences is now being expanded for publication by the Math. Assoc. of America. Progress on expository papers which I think will be of interest to two and four-year college teachers. Tentative titles for three are: "A Preview of the Gauss-Bonnet Theorem for Calculus Students," "Basic Trigonometry and the Interaction of Plane Geometry with Spherical Geometry," "The Chevalier de Mere, Pascal, and the Number e."

Colin Godfrey, Ph.D., Assistant Professor: Ph.D. thesis completed, "Ideals of Orbits of Nilpotent Lie Algebrae." 2 papers in press. Paper presented at the January mtg. of the Amer. Math. Soc. in San Francisco.

Victor Miller, M.A. Instructor: Ph.D. thesis completed. Papers in press: "Integer points on elliptic curves,: "The arithmetic growth of points on curves of positive genus," "Generators of the Hecke Ring," "The p-adic L-series associated with a modular form," (with B. Mazur). Ph.D. thesis: "Diophantine and p-adic analysis of elliptic curves and modular forms." Attended the Amer. Math. Soc. summer institute and discussed p-adic L-series of modular forms in an informal seminar.

Helen Skala-Kowalski, Ph.D., Assistant Professor: Publications: "An alternative method to avoid the set-theoretic antinomies," Zeitschrigt, f. Logik u. Grund. d. Math. "Ein alternative Methode, die Mengen-theoretische Paradoxien zu vermeiden" Anzeiger, Ost. Akademic d. Wissenshaften. Chaired session on Logic and Foundations at January AMS mtg. Papers presented: "The Set-theoretic Antinomies" at AMS.

Taffee Tanimoto, Ph.D., Professor: Presented papers: "Real Representatives of Samples" at Amer. Math. Soc., San Francisco. "Determination of Distributions" at International Congress of Mathematicians, Vancouver. Reviewed several elementary textbooks.

Dennis Wortman, Ph.D., Assistant Professor: Publications: "Some Results Concerning the Maximal Ideal Space of H^{∞}", Abstracts of Communications, International Congress of Mathematicians, Vancouver. Refereed a paper by M. Weiss, pub. in Proceedings of the Amer. Math. Soc. Research: Cont'd. research on the function algebraic properties of the Banach Algebra H^{∞}. Research supported in part by a Faculty Growth Grant.

POLITICAL ECONOMY DEPARTMENT

Charles Betsey, M.A., Instructor: Ph.D. in progress. In press: Research with Howard Wachtel: "Dual Labor Market Theory: An Empirical Investigation." Faculty Research Grant: Investigation of experience-earnings relationships for inner-city Boston residents.

Louis Esposito, Ph.D., Associate Professor: Publications: "Excess Capacity and Market Structure," The Review of Economics and Statistics, Vol. 56, No. 2, (with Frances F. Esposito). Abstracts: Journal of Economic Literature, Vol. 11, No. 4, - abstract of "The Impact of Liquidity on Merger Activity," The Quarterly Review of Economics and Business. Submitted for Possible Publication: "Determinants of Executive Compensation: A Comment" (with Frances F. Esposito) to Southern Economic Journal. Consulting: Office of Research and Statistics, Social Security Administration, paper entitled " Financing Social Security: A Review and Analysis of Bills Submitted to the 93rd Congress."

Monique P. Garrity, Ph.D., Associate Professor: Publication: "The Multinational Corporation in Extractive Industries-A Case Study of Reynolds Haitian Mine", pub. by the Univ. of West Indies Press. Paper presented: "The Implication of EEC Enlargement for African Trade and Development." Award: Fulbright Lectureship - University of Dakar.

Laurence Shute, Ph. D., Assistant Professor: Books: The Social Economics of J.M. Clark, Book of Readings in the History of Economic Thought. Articles: "J.M. Clark and Social Control," "The Economics of Overhead Costs--after 50 years," "Human Behavior and Economic Theory."

Raymond Torto, Ph.D., Assistant Professor and Chairman: Books: The Rich Get Richer and the Rest Pay Taxes: A Massachusetts Tax Primer, Mass. Public Finance Project, (with J. Chapman and E. Sclar). Introduction to Economics Workbook. Holbrook Press. Boston, Mass., (with H. Wolozin and J. Tillman). An Economic Profile of Lynn, Massachusetts, published by Lynn Economic Opportunity, Inc. (with F. Moynihan). Seven articles in professional journals. Grants: Principal Co-Investigator (with E. Sclar), Mass. Pub. Finance Project. Granter: OEO, $96,000.

Harold Wolozin, Ph.D., Professor: Publications: Energy and the Environment, The Economics of Pollution, General Learning Press. Domestic Economic Problems, with R. G. Torto, Holbrook Press. "Toward a Political Economy of Markets," Journal of Economic Issues.

POLITICS DEPARTMENT

Paul Beard, Ph.D., Assistant Professor: Ph.D. Dissertation, Bureaucratic Politics and Weapons Innovation, awarded Columbia Univ. Bancroft Dissertation Award. Includes publication of the dissertation by Columbia University Press. Manuscript on Congressional Ethics undergoing continuing revisions for the Brookings Institution. Member of a Panel on "The President and the Professionals" at mtg. of the New England Political Science Association.

Arnold Beichman, Ph.D., Associate Professor: Book: Nine Lies About America, pub. in hardcover in England by Alcove Press and widely reviewed. Article: "The Conservative Research Department: the Care and Feeding of Future British Political Elites," in Journal of British Studies. Numerous articles in professional journals. Panelist, APSA Convention, New Orleans. Lecturer, U.S. Information Service. Many book reviews for the Christian Science Monitor and Boston Globe.

George Goodwin, Jr., Ph.D. Professor and Chairman: In progress: Introductory text in American Politics for Scott, Foresman. Reviews in Polity and American Journal of Pol. Science. Member of Editorial Board of Polity. Member of Regional Congressional Fellowship Interviewing Panel for the Amer. Pol. Sci. Assoc.

Thomas R. Kanza, M.A., Diploma les Hautes Estudes Internacional, Associate Professor: Articles: "Uganda 1973" and "Nigeria 1973" in Encyclopaedia Collier's, MacMillan, New York. Rev. ed. of Evolution and Revolution in Africa, pub. by Schenkman Publis. Co., Cambridge. Submitted for pub., "The impact of Multinational Corporations in Zaire." As a Senior Associate Member of St. Anthony's College, Oxford (Eng.) I presented two papers: "Political Leadership in Africa," "The OAU: Reality or Myth."

Diane Paul, Ph.D., Assistant Professor: Ph.D. dissertation completed. "The Politics of the Property Tax," monograph pub. by Mass. Public Finance Project, April '74.

Primo Vannicelli, Ph.D., Assistant Professor: Publication: Italy, NATO, and the European Community: The Interplay of Foreign Policy and Domestic Politics, pub. by the Center for International Affairs, Harvard Univ.

PSYCHOLOGY DEPARTMENT

Lois Biener, Ph.D., Assistant Professor: In April chaired a symposium at EPA on "Psychological Factors which Maintain Sex Role Stereotypes." Member of a four-person research team known as the Committee on Academic Renewal sponsored by the Society for the Psychological Study of Social Issues. Awarded a research grant of about $5000 by NIMH for research proposal: "The Persuasive Power of Discrepant Minorities."

Milton Kotelchuck, Ph.D., Assistant Professor: Papers published: Kotelchuck, Zelazo, Kagan and Spelke, "Infant reactions to parental separations when left with familiar and unfamiliar adults," in J. Genetic Psychology; Lester, Kotelchuck, Spelke, Sellers and Klien, "Separation Protest in Guatemalan Infants: Cross Cultural and Cognitive Findings," in Developmental Psychology (1974). In press: Ross, Kotelchuck, Kagan and Zelazo, "Separation Protest in Home and Laboratory," in Developmental Psychology.

Bernard Kramer, Ph.D., Professor and Chairman: Article: "Day Care: A Phase of Partial Hospitalization," in Treating Mental Illness by Freedman and Kaplan; "Locational Process: Guidelines for Locating Mental Health Services," by Holton, Kramer and New in Community Mental Health J. Associate Editor for Journal of Health and Social Behavior. Organized and chaired the session entitled "Environment of a College: The Case of UMass/Boston," at September 1974 meeting of the New England Social Psychology Association.

Joan H. Liem, Ph.D., Assistant Professor: Article: "Effects of Verbal Communications of Parents and Children," in J. of Consulting and Clinical Psychology (1974). Research in Progress: family role relationships and their effects on the role choices of adolescent daughters.

Samuel Osherson, Ph.D., Assistant Professor: Research in Progress: role of personality and effective processes in learning and the relation of cognitive development to educational theory and practice.

PROGRAM IN THE STUDY OF RELIGION

Richard Horsley, Ph.D., Assistant Professor and Chairman: Development of Program in Religious Studies.

RUSSIAN DEPARTMENT

John Dick, Ph.D., Assistant Professor and Chairman: Ph.D. dissertation completed, entitled, Comparison of the Adjective and Adverb in Contemporary Standard Polish. Presented paper at American Association of Teachers of Slavic and East European Languages convention. Fourteen-page summary of dissertation to be used in book on comparision to be published by Polish Academy of Sciences (only contribution by a foreigner).

Joseph Manson, Ph.D., Associate Professor: Reviews in Books Abroad. Translation: P. Bicelli, "Chekhov." (Kennikat Press, 1974). Public seminar on "Solzhenitsyn as Prophet," for Harvard Christian Fellowship. Consultant: Russian Grammar Project (Columbia University).

SOCIOLOGY DEPARTMENT

Barry Brill, Ph.D., Associate Professor: In progress: Book, When Clients Are Captives. Member of research team to study competency based programs in higher education.

Lawrence Kenara, Ph.D., Assistant Professor: Ph.D. dissertation to be published by Gemini Village Publishers.

Richard Kronish, Ph.D., Assistant Professor: Ph.D. dissertation completed, "The Dominance of the Major Petroleum Companies: State Intervention into the Petroleum Industry." Article "Coming of the Energy Crisis" in Socialist Revolution. Book reviews in "Race and Ethnicity in the Working Class" pub. by Radical America.

Ellen F. Richards, Ph.D., Lecturer: Marc Fried et al, The World of the Urban Working Class. Cambridge, Mass.: Harv. Univ. Press. Marc Fried and Ellen Fitzgerald, "Family and Community Life in the Working Class," in Studies in Public Welfare.

Howard J. Rotblat, Ph.D., Assistant Professor: Papers presented: "Entrepreneurial Attitudes, Occupation and the Role of Values in Bazaar Development," at 7th annual mtg. of the Mid. East Studies Assoc. Program Chmn for the mtg. of the Soc. for Iranian Studies. Guest lecture on social change in an Iranian provincial bazaar, given to a grad. level course at Harv. Univ.

Nancy St. John, Ed.D., Associate Professor: School Desegregation: Outcomes for Children, pub. by John F. Wiley Interscience. "The Contribution of Cross-Racial Friendship to Minority Group Achievement in Desegregated Classrooms" in Sociometry. "Race and Social Structure of the Elementary Classroom" in Sociology of Education. Book review of The School Bus Stops Here in The American Educational Review Journal.

Sharon Stichter, Ph.D., Assistant Professor: Paper presented "Peripheral Capitalism and the Working Class: The Rise of Trade Unionism in Kenya, 1945-1952" to the conf. of Afric. Studies Assoc. of the United Kingdom, Liverpool. Work in progress: Reviews for the J. of Modern African Studies. "Africa and the Labor Aristocracy". Rev. Ph.D. thesis: Labor and National Dev. in Colonial Kenya. Paper presented: Conf. on the Political Economy of Kenya, 1929-1952, Trinity College, Camb. Univ.

Robert Weiss, Ph.D., Professor and Chairman: Publications: Loneliness, MIT Press. Foreword to Not Alone with Cancer, by Ruth Abrams. "The single parent," with Hugh Heclo, Martin Rein, and Lee Rainwater. "The contributions of an organization of single parents to the well-bring of its members," Family Coordinator. "Mental health implications of the organization of the large scale physical environment," in A Handbook of Human Service Organizations. Papers presented at the International Sociological Assoc., Toronto; Conference at U/Mass/Amherst, Dept. of Psychology. Professional Responsibilities: Associate editor, Social Problems; Associate editor, Man and Environment.

Gordon Zahn, Ph.D., Professor: Publications: Chapter in The German Church Struggle and the Holocaust; F. Littel and H. Locke eds. Foreword to Render Unto God by Thomas Shannon. Articles in Commonweal, America. Book reviews in Sociological Analysis, The New Republic, America, Commonweal, Religious Education. Series of lectures at Washington Univ, Holy Cross, Colorado College. Currently participant in International Laws of Warfare Symposium conducted by the Justice and Peace Div. of the U.S. Catholic Conf. in Washington, D.C.

SPANISH DEPARTMENT

ames Ryan, Ph.D., Professor: In progress: book about Spanish masterpieces for Ungar. Publ. Co.

aria Concepcion Zardoya, Ph.D. Professor: Publications: Book. Poesía española del siglo XX. Article "Los espejos de Federico García Lorca" in Federico García Lorca. Article "La imagen de la sangre en la poesia de Miguel Hernandez" in Revista de Occidente. Poems: "Oda y elegia a Pablo Neruda" (Sin Nombre); "El rio" (Azor); "El canto de los pajaros" (Sin Nombre). Poem accepted for publication by Mester: "El corazón y la sombra." Paper presented at Symposium at Mt. Holyoke College "Imagen de Espana en la poesía de Luis Cernuda". Criticism: "Poesía española de la Postguerra"; "Ser, espacio y tiempo en las Rimas de Becquer". Poetry: "Poemas de Manhattan" and "El corazón y la sombra".

THEATRE ARTS DEPARTMENT

obert Evans, Ph.D., Associate Professor and Chairman: Sabbatical project a book based on doctoral thesis, John Toland and the English Revolution, 1688-1714.

ouis E. Roberts, Ph.D., Associate Professor: Rev. translation of LOS ALBANILES for production and production notes for publication completed. Collaboration in Report on Censorship for the Institute of Latin American theatre. 13 reviews of Boston theatrical scene for NER. Considerable research at the request of Odyssey Press for a proposed work on early theatre of the Americas.

illiam Roberts, C.F.A., Assistant Professor: Theatre Crafts Book of Costume (Ed. Theatre Crafts Books, Emmaus, Pa.). First draft completed of play, THE BALLAD of MAD JOHN - about John Randolph of Roanoke. Two screenplays - one based on a story by G.T. Huntington, MY MOTHER DANCING--the other an original, THE SHELL GAME.

OFFICE OF THE DEAN, COLLEGE II

Edwin Gittleman, Ph.D., Associate Professor and Associate Dean/Faculty: Consulting designer and Principal Investigator (i.e. administrative supervisor) for a $31,684 grant awarded to College II by the National Endowment for the Humanities. "Jefferson's 'Slave Narrative': The Declaration of Independence as a Literary Text," in Early American Literature, VIII. Continuing study of the fiction of Isaac Bashevis Singer, about whom I have already published 3 essays as chapters in books dealing with critical views of his fiction. In progress: Book-length project on "The Meaning of Form in Selected Works of American Literature."

Robert J. Steamer, Ph.D., Professor and Dean: Articles: "The Supreme Court, 1973-74," "The Presidency," "Women's Liberation,""Watergate" in World Topics Yearbook. Book Reviews: "Justices and Presidents," Henry J. Abraham; "The Rights We Have," Osmond K. Fraenkel; "Dossier: The Secret Files They Keep On You," Aryeh Neier, in Choice. "The Judicial Mind Revisited," Glendon Schubert, in Perspective. Manuscript Evaluations: "Emergency Detention: The Generation Gap, 1950-1971," The Western Political Quarterly; "The Supreme Court and Environmental Decision Making," Journal of Politics, May 1974; "Separation of Powers and Checks and Balances: The Delicate Balance Between Republican Liberty and Power," Polity.

Annual Report, College III
1974-1975

The College of Public and Community Service (CPCS) is the third college at the Boston Campus of the University of Massachusetts. CPCS which enrolled its first class in 1973, represents the University's commitment to addressing urban problems through the integration of the liberal arts and career training and to the development of innovative methods of delivering educational services.

Competency is the ability to do something: to paint a portrait, solve a problem, assist a client, write a poem, analyze a neighborhood or lead a group. In a competency-based curriculum students are certified to possess the skills, knowledge, values and attitudes necessary to perform such tasks competently. Education is focused not on taking courses, but on learning and demonstrating competencies.

Since the curriculum at the College of Public and Community Service is competency-based, students are awarded the Bachelor of Arts degree not by accumulating course credits but by demonstrating a variety of competencies deemed crucial to careers in public and community service.

Competency-based education differs from conventional course credit systems in several ways. First, you may demonstrate a competency regardless of how you learned it. This frees you to learn in your own style(s) and in a variety of settings. Courses, fieldwork, on the job training, workshops, programs in other institutions, family environments -- all provide resources for learning competencies. Second, you may demonstrate a competency regardless of when you learned it. Since it does not matter how a competency is learned, you may apply skills and knowledge acquired in the past through work experience, schooling, childbearing, travel or any other occasion of past learning. Third, you may progress at your own pace. It is not necessary to remain in the College for a given length of time. Fourth, you may plan your program to meet your own goals. Many competencies allow you to apply skills in a variety of ways. The degree requirements allow you to choose competencies from among a range of areas. With this flexibility, you may shape a learning plan which brings together competencies central to your own life interests and career objectives. Finally, you can succeed without competing against others. One is certified for competency by meeting standards of performance specified in advance, not by necessarily performing better than other people.

Today, several colleges around the country are beginning competency-based bachelor degree programs, drawing the interest and support of students, educators and educational agencies. CPCS is part of this nation-wide trend and shares with these institutions the excitement and promise, as well as the hard work and frustration, that accompanies this effort to create a more humane and effective approach to education.

While sharing this effort with others, CPCS is unique in applying competency-based education to its larger mission: to serve working adults who seek careers in public and community service. The competencies emphasize skills needed to promote change and effectiveness in human service work. Students are encouraged to use skills learned prior to enrollment and to find learning resources in public agencies and local neighborhoods. With its flexibility and its focus on "the ability to do", a competency-based curriculum is well suited to the mission of the College.

The curriculum of the College is decidely interdisciplinary. It is structured around problem areas rather than traditional academic disciplines, with an emphasis on field experience. Each of the College's seven curriculum centers has its own certificate(s), a certain number of which must be earned by students to acquire a B.A. degree. The seven centers are: Essential Skills (which focuses on writing, speaking, reading, and mathematics); three general learning centers (Cultural Studies, Individual and Society, and Institutions); and three professional career centers (Housing and Community Development, Human Growth and Development, and Legal Education Services). The College also maintains an Office of Cooperative Education to coordinate work-related educational training for students. In addition, two special programs are provided for first-year students: an Assessment/Advising Program, and a Foundation Curriculum.

Curriculum Center Certificates

To date, the College offers fourteen different certificates through the seven curriculum centers. A description of the certificates follows:

Cultural Studies: Two certificates in American values and cultural comparison. The first requires an understanding of the nature and origins of American value systems and their impact on the individual. The second examines the ability to understand and compare the attitudes and practices of differing socio-cultural groups, either American or foreign.

Essential Skills: Three certificates in writing and speaking, reading and mathematics. The writing and speaking certificate encompasses advocacy, analysis, communication of personal feelings and/or experiences, and communication of technical career knowledge to both a professional and and general audience. The reading certificate deals with the ability to "pre-read" a book to determine its value, make use of libraries and other research sources, read materials encountered for the first time, and to comprehend and judge written texts. The mathematics certificate includes competencies in basic and business mathematics, algebra and statistics.

Housing and Community Development: One career certificate in housing which is divided into three parts. The first comprises certain basic competencies in the housing field, including knowledge of terminology and concepts, human needs and the housing environment, different career roles, and the overall housing system. The second part consists of a number of competencies in four professional career areas (advocacy, management, development, and public service in a housing agency). A student seeking

It is also interesting to note that the Legal Education Services Center has plans for the coming year to begin its own clinic (or law firm) which will involve both faculty and students. Attorneys in the clinic will be drawn from the Center faculty, and supplemented with attorneys from outside agencies such as the Boston Legal Assistance Project. It will specialize in the rights of debtors and in personal bankruptcy matters, and it will deal only with clients with incomes below set Federal poverty levels. The clinic will be located in the building housing the College and the Downtown Campus (100 Arlington St.).

Students working in the clinic will perform two kinds of functions. Some will work as law workers (often called para-legals), improving and using their legal skills for clients, and increasing their responsibility as their skills increase. Others will work in the administration of the clinic, thereby providing both continuity and stability in the functioning of the office while developing skills in management, grant development and other related areas. Although the clinic will start slowly in the Fall, taking only a few cases at a time, it will offer students paid opportunities to work in a carefully supervised field setting at various stages of their educational development in the College.

In sum, the clinic should fulfill four goals:

- To provide controlled field supervision sites for students. Students will be able to work toward competencies in the law certificate, and to learn generally how to work in a law firm situation.

- Students working in the clinic will acquire work experience which will increase their marketability upon graduation. The clinic will experiment with different ways of using law workers or para-legals, and will bring these experiments to the attention of lawyers around the city. The purpose is to demonstrate to the Bar new ways of employing more law workers in the delivery of legal services, thus enhancing the job market for students graduating from the College.

- To provide legal service for clients most in need of them.

Office of Cooperative Education

Central to the competency-based system being developed at CPCS is exposure to practical experience. To build a program encompassing field experience education, the College, in the Spring of 1973, established an Office of Cooperative Education and charged it with the following missions: To form, monitor, and administer a variety of cooperative relationships with public and private service agencies in Greater Boston area which provide crucial field work instruction and training for students; to assist in developing individual learning plans that facilitate acquisition of competencies through learning activities and performance demonstration; and to coordinate the College's career development, vocational counseling,

and job placement efforts with those of the University. Further, due to the unique nature of CPCS students and their needs, OCE has, over time, developed a definition of cooperative education which places stress on year-round use of the work site and agency participation with CPCS faculty in instructional and performance evaluation components of the competency-based curriculum.

To date, OCE has distinguished and made arrangements for four different types of field placements for students in well over 200 agencies and organizations in and around the Boston metropolitan area. The four categories of field placements are not all inclusive, but rather reflect the variety of cooperative field learning arrangements the College has developed in response to student need.

As of June 1974, OCE (with the aid of faculty throughout the College, particularly in the three professional career centers) negotiated eight "institutional agreements" through which 38 qualified agency employees were admitted to CPCS as full-time matriculating students with their jobs designated as field placements. During the current school year, the number of such agreements has risen to ten (adding another 43 students). In sum, OCE has been primarily responsible for negotiating and monitoring 12 different institutional agreements to date. According to a written letter of agreement, these students receive release time from their work to attend classes and other learning activities of the College, and may also receive additional benefits in the form of tuition and fee payments by the agency. The agency agreements further specify in detail the terms of agency-College cooperation in the field learning process.

Provision has also been made for students to negotiate with the faculty and OCE to designate their regular employment as a long-term field placement after enrollment in the College -- so called "job internships". As with institutional agreements, job internships require some form of agreement as to the student's individualized plan of experiential learning -- most often an informal process rather through formal letters of agreement -- thereby assuring quality field education.

Another category of field placements, "internships", is similar to the job internship except that they are not affiliated with the student's current employment. Internships also requirement a commitment on the part of the agency to participate in instructional/supervisory activities with the student and the College faculty. In some instances, these placements carry a stipend, and OCE has devised procedures in these situations for student referral and selection. Most often, internships are unpaid placements -- a factor that has tended to limit the use of such field opportunities which have developed.

Finally, a relatively small number of field placements have fallen into an umbrella category called "special projects". These cover a variety of off-campus, field learning experiences of short duration, e.g. course assignments, field experiences requested of students to demonstrate particular competencies in the evaluation process, etc.

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Many field placement agencies have displayed a strong receptivity to CPCS's competency-based curriculum and to cooperation with the College as a means of improving service delivery by providing relevant education for employees. Many have shown an interest in job mobility for their employee-students, with their concern focused on development of career ladders and lattices within the agency. Numerous placements have involved the appointment of agency coordinators and work supervisors for students' learning activities. In some, but not all cases, the involvement of agency personnel has been facilitated by stipends or honorari for those most directly involved. Often, agencies have donated the time of their personnel; for those that don't, OCE, has explored various means by which agency personnel can become more substantively recognized for their contributions to the educational process, e.g., through offering free enrollment in courses taught at the University.

Students, as well, have been keenly interested in applying practical experience to the learning process (particularly since so many have had considerable work experience and are currently employed). In retrospect, the sum total of students involved in the four field placement categories during the College's first year encompassed about a third of the student body. This year, OCE has helped increase this number of approximately half of the students enrolled. In fiscal 1976, the College recognizing the value of practicums in field settings, will devote faculty resources to direct teaching in field settings. The law clinic represents the attempt of the Legal Center in this effort.

Assessment/Advising and Foundation Curriculum

During the current school year, CPCS has initiated two new special programs for first-year students: an assessment and advising program and a foundation curriculum. The primary goal of the Assessment program is to identify and evaluate, within a relatively short period of time, those competencies which the student has upon entry. To this end, the Assessment program concentrates on assisting new students to understand the organizational and curricular structure of the College and to relate their past and present life/work experiences (knowledge and skills) to the certificates. In addition, students, with the assistance of Assessment staff, are required to design an individual learning plan (both short and long range) for progressing through the College. Thus the secondary goal of the Assessment program is focused on the development of overall planning skills and realistic goal-setting techniques. The Foundation Curriculum introduces students to the liberal arts through instruction focused on competencies and certificates of the three general learning centers and the Essential Skills Center.

Academic Advising

The system of providing academic advising to students has proved as essential to the well-being of the College as it has changed and evolved over the past year and a half. Advising has basically been the responsibility of faculty and staff, each of whom is responsible for

between six and fifteen students. Advisors work primarily with students on an individual basis and less often through group planning seminars. Given the unusual nature of the curriculum and the students who have been recruited, advising has actually become a more in-depth process than at more traditional schools.

Prior Work and Learning Assessment

The idea of a competency-based curriculum has attracted many students to the College since the College's program enables its students to apply knowledge and skills acquired through past experiences (life and work) toward the attainment of competencies. The College grants the B.A. degree on the basis of demonstrated competence, whether such competence was gained at CPCS or elsewhere. Many students who enroll bring with them a wealth of experiential learning.

In order to evaluate competencies students have upon admission, an individualized assessment program as part of the entry and orientation process for beginning students. A pilot program was conducted with 25 of 41 students who entered the College in February, 1974, and a much smaller project for housewives and secretaries was held in July, 1974. In the Fall, guided by a team of faculty and staff from throughout the College, CPCS launched a major new program of prior work and learning assessment geared primarily to new students (although it was open to continuing students as well). In brief, this program acquaints students with the College and its competency-based certificate program, assists them in identifying competencies they have upon entry and in compiling necessary material on data for the evaluation of these competencies, and teaches students planning skills necessary for the development of individual learning plans.

With more than 250 incoming students having gone through the assessment program this year, Assessment has been identified as an important element of the curriculum. Students completing the Assessment Program are progressing through the College at a much faster rate and with significantly fewer problems than students who entered prior to the development of Assessment and who did not take it when offered.

Foundations

Problems, Perspectives, Disciplines: The Foundation Curriculum, or "Foundations", was designed to provide a general introduction to liberal arts content and taught by Institutions, Individual and Society, and Culture. Specifically, Foundation's goal is to provide a bridge or transition to college level work by

1. emphasizing reading, writing, simple computation and critical thinking skills;

2. teaching the language and concepts of academic disciplines such as psychology, sociology, literature, politics, government, and philosophy;

3. complementing technical, career-specific training with critical overview of past and present urban problems.

Historical readings and illustrative case materials focused on metropolitan Boston whenever possible, and students were encouraged to test analyses and conclusions of researchers and critics against their own experiences of life in the Boston area. The course was taught by a team of faculty all of whom participated in the planning and evaluation processes. Students met in small discussion sections twice a week. Once a week, faculty and various guests presented formal lectures which were open to the University community.

Foundations began in week seven of Fall semester and continued through the year, with new students entering in January. The course was divided into three sections -- I. Community; II. Identity: What Makes Us Human; and III. Politics, Power and Decision-Making. In the first section formal lectures were on such topics as "How the City Grew", "Neighborhood Research Methodologies", and "Growing Up in Boston and Nearby". The second section began with Renais film "Night and Fog" followed by a lecture by Robert Coles entitled "Redefining Ourselves Post World War II". Later lectures took up the theme of "choice" as crucial to human identity; in the final section, students learned theoretical concepts of democratic decision-making which they tested against case materials describing the distribution of power in a contemporary urban setting.

Diversity of Students

Diversity is a fundamental goal of any community of learning. It certainly is one which the College has pursued in recruiting and admitting its initial student body. Such diversity requires not only a variety of learning experiences but also open access for a heterogeneous mix of students and dedication to the idea that all members of a community have distinct contributions to make to one another. An urban college -- committed to the challenge of public service -- must, then, draw its students from many different segments of the population to assure broad representation and understanding of an essentially complex metropolitan region. Provision of unique educational opportunities for a cross section of area residents is beneficial alone, yet it also enriches the institution by drawing the urban experience into the College itself. The major obstacle faced by CPCS in its admission process has been its attempt to encourage the Central Admission Office to broaden its recruitment process beyond the high schools. CPCS has focused on selecting a student body which is but a microcosm of the urban community to which the larger University addresses itself.

With this perspective, CPCS first opened its doors in October, 1973 with an enrollment of 289 students. In early February, 1974, another 41 students were added. During the current academic year, 215 students began study in September, with another 40 beginning in January, 1975. It is anticipated that student enrollment will gradually increase until it

reaches approximately 1,500 in 1980. In its developmental years, a steadily expanding yet relatively small student body will allow CPCS to offer comprehensive programs without creating problems related to rapid growth -- a "critical mass" of experienced and dedicated students, who should prove vital in forging so young an institution into stability and focus.

Some statistics now available confirm CPCS's claim to an unusual but diverse student body. To be sure, the attrition rate which commonly accompanies any new and developing college has meant some students have departed, but diversity remains. This is illustrated in the student profile which follows:

	October 73	February 74	September 74	Total
Age:				
Under 21	18 (6%)	6 (15%)	15 (7%)	39 (7%)
21-25	83 (29%)	14 (34%)	73 (34%)	170 (31%)
26-30	73 (25%)	9 (22%)	47 (22%)	129 (24%)
31-35	40 (14%)	2 (5%)	30 (14%)	72 (13%)
Over 35	75 (26%)	10 (24%)	50 (23%)	135 (25%)
Sex:				
Male	130 (45%)	21 (51%)	70 (33%)	221 (41%)
Female	159 (55%)	20 (49%)	145 (67%)	324 (59%)
Marital Status				
Single	133 (46%)	22 (54%)	106 (49%)	261 (48%)
Married	107 (37%)	14 (34%)	74 (34%)	195 (36%)
Divorced	32 (11%)	5 (12%)	23 (11%)	60 (11%)
Separated	11 (4%)	0	9 (4%)	20 (4%)
Widowed	6 (2%)	0	3 (2%)	9 (2%)
Employment Status				
Full Time	214 (74%)	20 (49%)	163 (76%)	397 (73%)
Part Time	25 (9%)	7 (17%)	9 (4%)	41 (8%)
Not Employed	50 (17%)	14 (34%)	43 (20%)	107 (20%)
Education:				
High School	245 (85%)	37 (90%)	196 (91%)	478 (88%)
GED	20 (7%)	4 (10%)	18 (8%)	42 (8%)
No Diploma	24 (8%)	0	1 (1%)	25 (5%)
Completed some College	201 (70%)	24 (58%)	126 (59%)	351 (64%)
No College	88 (30%)	17 (42%)	89 (41%)	194 (36%)
Ethnic Origin				
Black	105 (36%)	14 (34%)	53 (25%)	172 (32%)
Spanish Surname	19 (7%)	4 (10%)	7 (3%)	30 (6%)
White	160 (55%)	23 (56%)	155 (72%)	338 (62%)
Oriental	5 (2%)	0	0	5 (1%)
Military Service				
Veteran	56 (19%)	9 (22%)	30 (14%)	95 (17%)
No Service	233 (81%)	32 (78%)	185 (86%)	450 (83%)
Total Student Body				
	289 (100%)	41 (100%)	215 (100%)	545 (100%)

Advisory Committee

In the College's Annual Report for 1974 Fiscal Year the following was stated:

> "Evaluation of the competency-based curriculum as it evolves during the College's growth years will demand the energies of everyone at CPCS. Indeed, one of the nine stated goals for CPCS is 'to foster within the College itself a capacity for institutional change and ongoing reassessment'. Put another way, this goal implies development of a College as competent to be evaluated in the performance of its overall objectives as students are certified to be competent in particular areas of learning. Focus on competency requires no less."

As one consequence of this goal to assure critical self-analysis within the College, the Chancellor (in cooperation with the President of the University and the Dean) established an Advisory Committee for CPCS in the early Spring of this year. The Committee was given the charge to

> "review the efforts of the College to achieve its goals, offer suggestions for program development and implementation, and serve as a forum for the exploration of new curricular and administrative innovations . . . [plus] . . . share with the College their experience with similar programs throughout the country . . . ."

In short, this Committee will serve in an advisory capacity to the College and will bring to it the knowledge and experience of several national experts in competency-based education as well as interested members of the University faculty.

The Committee will be an important asset to CPCS as it continues to address major issues of innovation within the University. CPCS is fortunate to have as the Committee Chairperson, Alan Altshuler, former Secretary of Transportation, and now a Professor of Political Science at M.I.T. Other members of the Committee include: Ruth Bennet, Professor of Biology (College I); Marcia Guttentag, Professor of Psychology (College II), Harold Hodgkinson, Director, National Institute of Education, U.S. Office of Education; Morris Keeton, Vice Chancellor and Provost, Antioch College; Toye Lewis, Senior Service Bureau, Research Group, Boston University; and Sister Joel Reed, President, Alverno College.

Graduates

Five students of the College were graduated in May, 1975. The graduates represent the diversity of the student body, as shown in the brief profiles below:

Mrs. Ilene Weinberg, 48, of 33 Sun Hill Lane, Newton describes herself as a "happy Jewish mother." She's happy that her son Richard was graduated with his M.D. from the Johns Hopkins Medical School last week and her son Donald will be graduating from Harvard College on June 12. Meanwhile, she is one of the five first graduates of CPCS. Previously she had worked with children at the Fernald School in Waltham and decided two years ago to return to school. She chose the new, experimental College of Public and Community Service, and "I learned what to do with the knowledge I gained," she says. She plans to work in a public service agency and enthusiastically adds, "I may take on law school next year."

Herbert Fothergill, 52, Chief of the Chelsea Fire Department and the Deputy Chief of the Department, William Capistran, 55.

Paul Bright, 31, was a student at UMass/Boston eight years ago and dropped out to work as a musician and to do work with drug addicts. He has also worked in settlement houses and lately has been working with the Planning Office of Thompson's Academy, the school off the shores of the Harbor Campus.

Student Affairs

In December the College was able to appoint, for the first time, an Assistant Dean for Student Affairs. During the year efforts have been undertaken to improve communications among students and faculty, to develop a student peer counseling and advising system, to secure adequate services for students in the downtown location and during evening hours, and to bring to the attention of the University unmet needs of CPCS students. Severe reductions in the budget for 1975-76 will necessitate the virtual elimination of all student support activities, a major blow to a developing institution.

Administrative Reform

One of the missions undertaken by the College has been the development of personnel policies which reflect the equity necessary to employ and reward both highly qualified and competent practitioners and academicians who serve the student body and the University in unique ways beyond the scope of the definition currently defined in University policies. To date these efforts have been unsuccessful and additionally complicated by the abolition of merit pay increases, annual salary increases, long term contracts and salary adjustments. An experimental effort in higher education, highly dependent on low salaried new employees, is severely stifled by personnel and salary policies of the type currently in the University of Massachusetts system.

Grant Activities

In 1974-75 the College continued to be recognized as an important part of experimental efforts in higher education. The College was the recipient of a $119,000 grant from the Fund for the Improvement of Post Secondary Education to support its efforts in Assessment and competency curriculum development. This grant was renewed for 1975-76 for $64,000. The College was one of only 82 institutions receiving FIPSE grants in 1974-75, a distinction which has given strong impetus to its efforts. The College has also received grants of $30,000 and $40,000 in support of its field education efforts from the Office of Cooperative Education, Division of Cooperative Education.

New Staff

During 1974-75 the College made two significant appointments in the areas of Curriculum and Instructional Development. Coit Butler and Arlene Fingeret joined the College in January and have quickly engaged the faculty and staff in a thorough review of the curriculum which addressess and clarifies the major curriculum and organizational issues of the College. In addition considerable research has been undertaken to improve the techniques for evaluating competencies, as well as instruction.

Mrs. Sarah Curry commuted from New York, where she is the assistant to the director of the Department of Economic Development of the National Urban League. A lifelong "compulsive learner" she had sufficient "competencies" in the College of Public and Community Service to complete requirements in one year. She has previously been a Community Fellow at MIT, her colleagues describe her as an intellectual and as bright a new minted coin. Her husband died a year ago, and she has been bringing up three children 18, 15, and 12, who will be at graduation.

Barbara Buchanan	University of Massachusetts representative on Council on Higher Education
	Appointed Board Member, W.I.N.N.F.R.S.
	Recipient of the Alumnae Award, Wells College June 6, 1975
Aili S. Chin	Member of National Advisory Council on ESATT-TV Project of WTTW, Chicago for School Desegregation and Tension Reduction Series 1974-76
	Member of Ad Hoc Committee on Ethnicity, Boston, formerly as Advisory Council of Ethnicity to Secretary of Educational Affairs, Commonwealth of Massachusetts
	Research Contract with the National Museum of Man, Ottawa, Canada, for July and August, 1975, to conduct research on the cultural identity of the Chinese community in Montreal in bi-cultural setting
Philip S. Hart	"Toward Social Graphics Approaches to Jury Selection and Representative Problems", published under Project 532 with Bureau of Social Science Research, Inc. May, 1975
	Testimony as expert witness in statistical decision-theory in Suffolk County jury challenge cases
	Economic planning consultant for CDC of Boston industrial park project. This is a 29-acre, $12 million project which has just received $150,000 EDA grant for feasibility study
	Executive Producer of two half-hour films: We Learn by Love, about St. Joseph Community School in Roxbury; and Effects of Business Leadership Training
	Problems in Organizational Renewal (Ph.D. dissertation, Michigan State University, Sociology Dept., 1974, 250 pp.
Michael Greene	Themes In the Christian History of Central Africa, reviewed in Review of Books and Religion, May, 1975

Nancy Hoffman	"Teaching Change: Education to Reform the Cities", Working Papers for a New Society, p. 27-43, Summer, 75
	Rockefeller Foundation Humanities Fellowship for 1975-76
	Awarded by City-Wide Education Coalition for help in Desegregation Effort in September, 74
Daivd A. Smith	Senate Resolution 1819 - development finance legislation
	Grant from CCED to study the relationship between public sector spending and neighborhood development
Michael Stone	"South End Tax Assessments and Mark R. Goldweitz", April 75
	Tenants First: A Research and Organizing Guide to FHA Housing, (Co-author with Emily Achtenberg) Cambridge: Urban Planning Aid, Inc., 1974
	Grant awarded for use in 75-76, Tenants Education and Training Program, Title I, HEA
	Public/Community: Assistance to a number of local and regional groups around rent control and other issues

Annual Report, College IV
1974-1975

SUMMARY

Major Developments During 1974-75

Program Approvals

In September 1974 the Trustees of the University of Massachusetts approved the recommendation of the Dean that the new College of Professional Studies begin its development with a program in Management that would open in September, 1975.

In June, 1975 the Massachusetts Board of Higher Education authorized the implementation of the Management Program.

Faculty Development

Nine persons were selected from among approximately 800 applicants to constitute a core faculty and planning team for the Management Program.

Program Planning

The University made available special funds to permit the Management faculty to begin planning the curriculum during the the Spring of 1975 and also to work full-time on the program during the Summer of 1975.

The College established cooperative relationships with the other Colleges of UM/B which resulted in a joint planning effort with four departments and agreement that these departments would offer parts of the freshman program in the College of Professional Studies on an experimental basis.

Students and Admissions

The College made a first attempt to enroll students according to the proposed "New Directions" admissions policy which contains the goal of enrolling an academically talented student body that is broadly representative of the population of the Boston metropolitan area.

The College received over 1000 applicants for the 250 places available at the freshman and transfer levels in September, 1975.

Inter-Institutional Cooperation

The College began to develop cooperative relationships with other institutions of higher education in the Boston area and took the first steps toward establishing a precedent-setting joint program with the College of Business Administration at Northeastern University.

Relations with Business and Government

A special committee of representatives from business and government worked with the staff of the College to help plan the new Management Program.

Initial Priorities for 1975-76

Faculty Development

Recruitment of additional faculty members in Management will be a major concern of the College during the coming academic year.

The establishment of a small planning unit for the second program in the College will be undertaken.

Students and Admissions

The College plans to initiate a much more active program of outreach with regard to potential students than was possible during 1974-75. In addition to continuing our efforts to reach college-oriented graduates of high schools and community colleges, we will attempt to make contact with students less traditionally inclined to seek baccalaureate degrees in Management, especially older persons, women, and persons from minority groups and disadvantaged backgrounds.

Program Planning

Planning activities within the Management Program will center on the development of curricula at the sophomore and senior levels, both of which will be implemented in the Fall of 1976. The faculty will also be engaged in a longer term examination of curriculum possibilities in Management pointing toward a revised basic curriculum in the Fall of 1977.

The College will be planning for the opening of an evening program in September, 1976.

The College will be giving major attention to the development of program activities in the areas of counseling, advising, field work, and placement.

The College will develop its recommendations regarding the second program to be developed, pointing toward the initiation of program activity in September, 1977.

Inter-Institutional Cooperation

The College will continue its efforts to develop cooperative relationships with other Colleges and Universities in the Boston area, with particular emphasis on coordination with community colleges and the extension of contacts with the private sector.

Relations with Business and Government

A major priority during 1975-76 will be the extension of the College's relationships with business and government in the Boston area, and particularly the development of a program of field work opportunities for Management students during 1976-77.

ANNUAL REPORT

Background: The College of Professional Studies

The College of Professional Studies is one of four colleges of the University of Massachusetts at Boston.* The idea for a college focused on professional education was first developed in the report of a campus-wide planning committee in April, 1973, which proposed that the fourth college offer undergraduate and graduate degree programs in a number of career areas, including Management, Urban Technology, Mass Communications, Architecture and Urban Design, and Community Health. The planning committee conceived the College as an innovative approach to professional education for several reasons:

The College would bring together in a single academic unit professional fields normally located in separate-purpose schools, thereby maximizing opportunities for joint programs and interdisciplinary studies.

The College would be responsible for both the professional and general education of its students, thereby bringing the liberal arts into a more meaningful relationship with career-related studies.

The College would seek to provide opportunities for persons traditionally underrepresented in professional programs, especially minorities and females.

In keeping with the diversity with its students, the College would adopt flexible forms in terms of time, place and manner of instruction.

The Board of Trustees of the University of Massachusetts reviewed the proposal for the College of Professional Studies in July, 1973 and authorized the campus to initiate a search for a dean who would be charged with organizing the further development of the College. The search for a dean took most of the academic year 1973-74; Dr. Richard Freeland was appointed in June, 1974.

The Management Idea

During the summer of 1974 the Dean reviewed the initial plans for the five programs to be developed in the College of Professional Studies and undertook additional analyses of the advantages and disadvantages of beginning new programs in each area. In August, 1974 he submitted a report to the University's Trustees recommending that the College open in September, 1975 with a single undergraduate program in the field of Management. The Program would be intended to prepare students for entry level administrative and managerial positions in profit making and non-profit institutions. An attempt would be made to devleop a useful balance between the development

*The other three Colleges are: College I and College II, both comprehensive Arts and Sciences Colleges, and The College of Public and Community Service (College III).

of general management and problem-solving skills and the development of specialized skills needed to gain employment immediately after graduation. The Dean recommended that programs in the other professional fields identified for development in the College and graduate programs be added on a staggered basis according to further planning and program reviews.

The Dean's report proposed that the new Management Program in the College of Professional Studies include elements from the fields of Business Administration, Public Administration/Public Affairs, Planning, Management Sciences. The plan for an integrated program in Management combining these fields was influenced by several developments affecting managers of modern institutions. First, as public agencies have grown into large, complex organizations, the problems associated with their administration have become markedly similar to those found in private industry. Second, as industry has become increasingly sensitive to its social and political environment, the task of managing a private business has taken on dimensions traditionally associated with government. Third, the development of modern techniques for management and planning has caused managers in many large institutions to depend on a common core of ideas and methods. Finally, careers of administrators increasingly involve movement between private and public institutions. All these developments have made the traditional academic divisions between preparation for careers in business and careers in government less meaningful.

Academic programs have increasingly come to reflect the convergence of managerial life in different kinds of institutions. The Dean's report analyzed the historical development of the academic fields of Business Administration, Public Administration/Public Affairs, Planning, and Management Science, and came to several conclusions that suggested the value of integrating elements of all four fields in a new Management curriculum:

> The fields of Business, Public Affairs, Management Science and Planning have all converged around a common core of skills and areas of knowledge that provide the intellectual basis for an integrated program. Specifically, all these fields depend upon the social and behavioral sciences and their application to the study of institutions and the environments of institutions; all draw on similar methodologies in quantitative analysis and the uses of the computer.
>
> The different intellectual roots and institutional histories of these four fields have caused them to develop different emphases and strengths that would render an integrated program intellectually richer and professionally more useful than programs specialized in any one of the four areas. In particular, programs in business administration have developed highly sophisticated approaches to the internal management of institutions, while programs in public affairs and planning have developed greater emphasis on the relationship of institutions to complex social and political environments.

The development of an integrated program would maximize the theoretical and analytic content of instruction in these fields, limit development of specialized courses, and provide students with a highly transferable and versatile set of skills. Such a program would avoid one of the most widely publicized aspects of professional programs: the proliferation of highly specific and technical courses that contribute little to the undergraduate's general intellectual development.

With an integrated program it will still be possible -- and very important -- to provide students with the limited amount of specialization that will be important to them in beginning professional careers. Thus, a core program in Management common to all students could be followed by more specialized work oriented towards particular kinds of institutions or particular functions within institutions.

The Dean's report also emphasized the importance of incorporating in the Management Program new ideas that have emerged from recent critiques of professionally oriented higher education. Among the most important of these ideas are:

The need for greater emphasis on value considerations associated with different kinds of institutions and individual roles within institutions, including consideration of the question of client definition and the concept of client-professional relationships.

The need for emphasis on human relations in all types of institutions, and the likelihood that administrative effectiveness will increasingly depend on the ability to achieve cooperation among individuals rather than to give orders to individuals.

The need to structure and integrate more fully the relationship of the liberal arts and sciences to practical situations, to build the linkages between theory and application through increased use of field situations, simulations, and case studies.

The need for greater emphasis on greater inter-disciplinary work and the importance of cooperation among specialized fields.

The need for greater flexibility in terms of paths through programs of professional education and in terms of the kinds of students enrolled in professional programs.

On the basis of the Dean's report the Trustees of the University approved the concept of the Management Program as the first step in the development in the College of Professional Studies and authorized the Dean to initiate a program of planning, including faculty recruitment and admission of students, designed to open the new program in September, 1975. The Massachusetts Board of Higher Education also approved the proposed new program.

The Management Faculty

An academic program is only as good as its faculty. More important than careful plans, course designs, or the use of the latest technology in determining the quality of any new curriculum is the quality and commitment of the people who come to teach in it. For this reason, the recruitment of a core faculty for the College of Professional Studies was the major priority of the planning year and took the largest part of the time of the College's staff.

The College was authorized to hire an initial faculty of 10 persons. For these 10 positions, the College received approximately 800 applications. From October, 1974 through March, 1975, the staff of the College reviewed vitae, checked references, and conducted interviews of the applicants. The result, in the Spring of 1975, was the appointment of 9 persons to key positions on the initial faculty of the Management Program. The 9 are:

GUNTHER S. BOROSCHEK
Professor
Organizational Behavior

Education: Ph.D. Harvard University, 1967
M.S. Harvard University, 1966
M.S. Cornell University, 1963

Dr. Boroschek has spent most of his academic career in Chile, where he taught Organizational Behavior at both the National University and the Catholic University. At the latter institution he assumed responsibility for developing the Organizational Behavior Program. Dr. Boroschek joined the faculty at the University of Wisconsin Graduate School of Business in 1974. He has published a variety of monographs and reports on industrial behavior as well as a three volume anthology of Social Psychology. His most recent research is concerned with worker participation in management.

KENT J. CHABOTAR
Associate Professor
Public Administration

Education: Ph.D. Syracuse University, 1973
M.P.A. Syracuse University, 1969
B.A. St. Francis College, 1968

After earning his doctorate from the Maxwell School, Dr. Chabotar taught at Michigan State University, where he also served as coordinator of Public Administration Programs. His research and consulting activities have focused on the evaluation of training programs and on educational accountability; he has published several reports and articles in these fields.

STEVEN ERIKSEN
Instructor
Quantitative Methods

Education: M.B.A. Boston University, 1972
A.B.D. Massachusetts Institute of Technology

A student of both business and operations research, Steven Eriksen brings to the Management Program a strong awareness of the managerial applications of quantitative methods. His current research is concerned with the application of optimization techniques to problems of airline

management. For the past 3 years, while completing his degree, he has been teaching statistics in the Economics Department of College II at UM/B.

PEARSON HUNT
Professor
Finance and Accounting

Education: D.C.S. Harvard University, 1939
M.B.A. Harvard University, 1933
Ph.D. Yale University, 1930

For the past thirty-five years, Dr. Hunt has taught Finance and Banking at the Harvard Business School. On leaves and vacations during this period, he has carried on a wide range of activities, serving as an advisor to educational institutions, industries, and governments in the United States and several foreign countries. Dr. Hunt has written numerous articles and his text on business finance is the most widely-used book ever published in its field.

HERBERT LYKEN
Associate Professor
Finance

Education: M.B.A. Harvard University, 1951
B.S. Suffolk University, 1948

Mr. Lyken has spent most of his career in industry and government in the Boston area. He was a Commercial Loan Officer with the Small Business Administration for ten years. More recently he has held positions with the John Hancock Life Insurance Company, Raytheon Company, and most recently he was Manager of the Planning and Staff Services at the Polaroid Corporation. In addition, he has taught for several years in the College of Business Administration at Suffolk University, and in 1969-70 he spent a year at the Harvard Business School where he developed an admissions program for minority students.

PETER J. McCLURE
Professor
Marketing

Education: D.B.A. Indiana University, 1966
M.B.A. Indiana University, 1950

Dr. McClure has been a Professor of Marketing at California State College, Fullerton for two years. Prior to that time he was a member of the faculty of Business Administration at Boston University. Dr. McClure's major interests have been in the areas of teaching and curriculum development. He recently completed a postdoctoral program in higher education at U.C.L.A. Dr. McClure has published several articles in the fields of Marketing and Consumer Behavior.

MARY NEWMAN
Distinguished Senior Lecturer
Public Affairs

Education: B.A. Swarthmore College, 1930

Mary Newman has been an active participant in public affairs in Massachusetts for the past 25 years. She was elected to the Massachusetts Legislature as a representative from Cambridge in 1953 and served in that capacity with a short break until 1968. In 1968, when

state government was reorganized into ten Secretariats, she was appointed Secretary of Manpower Affairs by Governor Francis Sargent. For the next four years she was the highest ranking woman in Massachusetts state government.

JOAN C. TONN
Assistant Professor
Organizational Psychology

Education: Ph.D. University of Michigan, 1973
B.A. University of Minnesota, 1967

Dr. Tonn came to UMass/Boston as a Staff Associate in the Office of Educational Planning in 1972, and in 1973 became the Assistant Director of that Office. During her three years at UM/B, Dr. Tonn has worked on a variety of planning and research tasks related to the development of the institution; she participated in the planning that led to the establishment of the College of Professional Studies. Her scholarly interests have been focused on the interaction of institutions with their environments.

ROBERT E. WEGNER
Associate Professor
Public Administration

Education: M.B.A. Columbia University, 1966
A.B.D. New York University

A student of both business and public administration, Mr. Wegner has spent several years working on the development of an integrated Management Program at the University of Regina in Saskatchewan, Canada. His published works include a prize winning review essay in the Public Administration Review and a Reader in Public Management.

The Management Program

The charge to the new faculty was challenging: to create a new approach to undergraduate management education for a program to begin in September, 1975. Special funds were made available to the College to enable the new faculty members to begin planning during the Spring of 1975 and to join the College on a full-time basis during the Summer. In addition, members of the Arts and Science faculties of Colleges I and II received released time from their regular work to assist in planning the new curriculum.

As a result of these planning efforts, the College developed an initial program at two levels: a Freshman Program and a Transfer Program.

The Program for Freshmen Students entering the Management Program at the freshmen level in September, 1975 will enroll in an integrated, four-part curriculum designed to achieve the following goals:

to help students develop an overview of the occupational and institutional world for which they are preparing

to introduce students to the academic disciplines of the University, and particularly to the disciplines that will be important at later stages in the Program

to introduce students to the idea of management and the functions of managers

to help students develop basic intellectual skills that will be important in subsequent academic work and in professional life, with special focus on the two basic forms of communication in management: the English language and quantitative analysis

Courses in the Freshman Program will be taught by members of the Management faculty and the Arts and Sciences faculties of Colleges I and II.

In the Fall Semester 1975, the Freshman Program will include the following courses:

The Liberal Arts and the World of Work 4 credits

This course is designed to inform students in broad terms about the world of work they plan to enter: the social functions of work, the organizational settings in which work takes place, the different forms of work and the values attached to work. The course will also introduce students to the conceptual and disciplinary tools they will encounter at later stages in the program. This course will be taught by a team of faculty from several fields in the social sciences and the humanities. Planning for the course is being coordinated by Dr. Francis L. Broderick of the Department of History, College I.

Communications 4 credits

This course, meeting in small sections, will introduce students to the importance of effective communication in both their careers and their personal lives. Taught by members of the English Departments of Colleges I and II, the course will provide intensive practice in writing and speaking, as well as emphasizing critical thinking, reading, and listening. Planning for the course is being coordinated by Dr. Joseph L. Tribble of the Department of English, College I.

Quantitative Methods 4 credits

This course will introduce students to basic quantitative ideas and tools that are an important part of their general education and will be useful in understanding, describing, and solving problems they will encounter later in the Management Program and in their careers. The course will include a review of algebra, followed by topics from the mathematics of finance and finite mathematics. An introduction to the Basic computer language will be a continuing component of the course. This course will be taught by members of the Mathematics Departments of Colleges I and II. Planning is being conducted by Dr. Bernice Auslander of the Mathematics Department, College II.

Introduction to Management 4 credits

This will be a first course in the functions and problems of management, designed to introduce students to the concrete world of management for which much of their subsequent course work will be designed to prepare them. This course will be planned and taught by the Management faculty.

Transfer Program The transfer program in Management is intended for students who have completed approximately two years of college-level work and are now prepared for a concentrated, two-year, baccalaureate-level program in the field of Management. The first year of this program will consist of a prescribed set of core courses that will introduce students to the major subfields of Management. In the second year of the program students will be able to concentrate their studies in one of the subfields and also to engage in a field experience.

In 1975-76, which is the initial operational year of the College of Professional Studies, only the first year of the two-year transfer program in Management will be available. Students entering the Management Program as transfers in September 1975 will enroll in four two-semester core courses, as follows:

Accounting/Finance/Budgeting Sequence: This two-semester course introduces Accounting and Financial Management in profit, non-profit, and governmental institutions. Students will be introduced to the areas of Accounting, Finance, and Budgeting for all these types of activities.

Human Resources Management Sequence:
Fall Semester: Organizations
This course will explore organizations and institutions as settings for human behavior. The course will include discussion of structure of organizations and patterns of human interactions in organizational settings.

Spring Semester: Personnel
Building on the concepts developed in the course in Organizations, this course will introduce students to the practical problems of personnel management in organizational settings.

Environmental Analysis Sequence: This is a two semester course concerned with two basic aspects of the relationship between organizations and their environments: First, the course looks at ways in which organizations observe, analyze, measure and understand the social, economic, political and legal environments in which they operate; second, the course studies ways in which organizations develop policies designed to adapt to or change their environments. This course will include an introduction to concepts of Marketing as well as to the problems of Policy Development, Program Planning, and Evaluation.

Management Science Sequence:

Fall Semester: Operations Research

This course covers a variety of quantitative methods that are basic tools of modern management. Included are problems from linear programming and calculus.

Spring Semester: Operations Management

In this course students will study the uses of quantitative methods in both private and public sectors. The course will be concerned with such problems as production management, inventory control, and optimization.

In addition to the basic two semester Management Science Sequence, some students may need work in Statistics if this has not been covered adequately in their lower division work. A course in Statistics will be offered during the spring semester for such students.

Program Planning Priorities for 1975-76

During 1975-76 the College and its faculty will undertake a number of curriculum planning efforts. The most important of these include:

The Sophomore and Senior Years in Management: Because the students enrolled at the freshman and transfer levels during 1975-76 will be moving to the sophomore and senior levels in the Fall of 1976, our first planning priority for the coming year will be to develop the Management Program at these two levels. Planning committees will be constituted with the Management faculty and will draw on the expertise available in the Colleges of the campus to design appropriate curricula. Although no detailed work has yet been done, our current thinking involves devoting a substantial portion of the sophomore year to basic disciplinary work in fields that are important to the study of Management (e.g. Economics, Sociology, Psychology, Politics, Mathematics) and to general education. The sophomore program will probably include some professionally oriented work in Management, but this will be a small component of the program. The senior year, following upon the core program taken by the juniors, will provide students with an opportunity to take specialized courses in one of a series of concentrations that will be offered in the various functional fields of Management. This year will also place heavy emphasis on field work and internship experiences for the students as well as upon an effort to integrate the diverse elements of the Management Program.

The Evening Program: The College is committed to offering an evening program in Management beginning in September, 1976. While this program will be essentially an extension of the day program, taught by the regular Management faculty as part of the normal work load, considerable planning and organizing will still be necessary to assure that students who are able to come only the evenings have access to a complete range of Management courses.

The Second Program in the College: Management is, of course, the first of several professionally oriented programs that will be developed in the College of Professional Studies. The Report which proposed the establishment of the College recommended that consideration be given to programs in the fields of Community Health, Urban Technology, Architecture and Urban Design, and Mass Communications. Developing a firm set of recommendations with regard to the establishment of a second program will be a major concern during 1975-76.

Revising the Management Curriculum: The Management faculty has committed itself to regarding the first two years of the program as basically experimental. During this time, we will be trying a variety of approaches to instruction in Management, conducting evaluation of what we are doing and exploring alternative approaches to instruction in Management. These efforts will begin during 1975-76 and continue the following year with the purpose of developing a comprehensive set of recommendations with regard to the undergraduate Management Program for implementation in the Fall of 1977.

Counseling, Advising: One of the most important functions of this (or any) College will be advising on a range of academic, professional, and personal issues. There has been much criticism of the administration of the advising function in colleges and universities in recent years and much of this criticism is justified. During the coming year, the Management faculty will make an effort to think about this part of its responsibilities in detail and develop a system that integrates the advising and counseling function more fully with the teaching function than has often been the case.

Students and Admissions

In 1973, as part of an overall review of academic programs at UM/B, a campus-wide planning committee called The New Directions Committee proposed a comprehensive new admissions policy for the campus that emphasized the responsibility of UM/B to serve academically able men and women from all social, economic, and ethnic communities in the Boston area. This proposal represented a departure from a more traditional admissions policy, concerned solely with academic ability measured by traditional criteria. While the Committee's recommendations are currently being debated by the campus and collegiate governance bodies, the College of Professional Studies decided to attempt to implement them on an experimental basis. Our ability to conduct the kind of outreach effort required effectively to achieve the New Directions goals was, in fact, quite limited this year but we were able to make a preliminary effort to incorporate New Directions goals in our admissions process.

Despite the limits on our ability to conduct a proper admissions effort this first year, the College was reasonably successful in attracting applicants for both the Freshman and Transfer Programs. As indicated in Table A the College received a total of 1204 applications, 627 for the Freshman Program

and 577 for the Transfer Program. Since only 125 places were available at each level, we received approximately 5 applications for each position. Considering that this is the first year of the new program, we feel quite satisfied with the response of potential students. Table B provides a breakdown of a portion of our student pool by various New Directions criteria.

TABLE A
APPLICANT POOL

	Enrollment Goal	Total # Applicants	Total # Accepted	% of Applicants Accepted
Freshman Class	125			
From Reg. App. Pool		590	217	36.8
From Spec. Adm. Prg.		14	9	64.3
From UM/B		23	14	60.9
		627	240	
Transfer Class	125			
From UM/B		177	92	52.0
From Other Institutions		400	162	40.5
		577	254	
Total	250	1204	494	41.0

TABLE B

CHARACTERISTICS OF APPLICANTS *

Characteristic	Freshman Class #	Freshman Class %	Transfer Class #	Transfer Class %
ale	107	19.5	96	24.1
	431	78.7	302	75.9
Data	9	1.6	0	0
thdate 1950 or before	22	4.0	125	31.4
1951-1955	38	6.9	216	54.3
1956 or after	478	87.3	56	14.1
Data	9	1.6	1	.2
sidence				
ih Impact Area	60	10.9	33	8.3
oton	134	24.4	84	21.1
ter Areas	344	62.8	281	70.6
Data	9	1.6	0	0
iority Groups: Black, Spanish, Oriental	23	4.2	28	7.4
Data or Others	515	94.1	370	92.6
o/Economic Background				
n Income Distribution				
+ Bottom 2 Quintiles	291	53.1	202	50.8
39% "	104	19.0	77	19.3
29% "	78	14.2	59	14.8
19% "	9	1.6	4	1.0
Data	65	11.8	56	14.7
upational Prestige Rank				
2	21	3.8	13	3.3
4	26	4.7	30	7.6
5	71	12.9	52	13.0
8	96	17.5	85	21.4
10	193	35.2	126	31.7
Data	138	25.2	92	23.2

* Please note that figures in these charts represent only those applications coded and processed through the computer facility. Computer runs showing New Directions criteria statistics for the total applicant pool, pool of students accepted and pool of students enrolled are forthcoming.

Admissions in 1975-76 During the coming academic year the College intends to pursue vigorously its efforts to achieve the admissions goals recommended by the New Directions Committee. Our admissions program will involve efforts by both the faculty and staff of the College, in cooperation with the UM/B Admissions Office, to make contact both with traditional college going students from high schools and community colleges in the Boston area and to reach persons not traditionally oriented towards college or towards Management, especially minorities, females, persons from disadvantaged backgrounds, and older persons. The opening of the evening program should make the College much more accessible to older students.

Relations with Other Colleges and Universities

One of the major goals for the College of Professional Studies and the Management Program, as articulated in the 1973 Report of the New Directions Committee, was to explore possibilities for inter-institutional cooperation.

During the Fall of 1974, following Trustee approval of the Management Program, representatives of the College held exploratory discussions with a number of business schools including Babson College, Boston State College, Boston University, Massachusetts Institute of Technology, Northeastern University, Suffolk University and Tufts University. The College also participated in general discussions of the possibilities for programmatic cooperation sponsored by BABCAC, a group of private schools of business in the Boston area. These various meetings identified a variety of possible modes of cooperation between the Management Program and other institutions, and it is our intention to pursue these possibilities energetically as our own capacity to participate in cooperative arrangements develops.

One concrete example of a developing program of inter-institutional cooperation deserves special mention. We are close to final agreement with Northeastern University regarding a program through which Management students at UM/B would have access to seats in courses in the College of Business Administration at Northeastern. UM/B would compensate Northeastern on a cost-per-student-per-course basis. Such an agreement would vastly expand the programmatic options available to UM/B students without requiring the College of Professional Studies to duplicate faculty skills in all areas. We hope this model can provide the basis for a whole network of cooperative relationships between the Management Program and programs in Business and Public Administration at private institutions in the Boston area.

An area of potential cooperation in the public sector involves the College Program Sharing arrangements that are being developed in the state college system. This plan would seem to offer possibilities for cooperative arrangements between UM/B and Boston State College.

Also, we attach important to planning our development in close relationship to the community colleges, which will be a major source of our students.

We have begun work with the State Transfer Articulation Committee (STAC), an organization of administrators from Massachusetts public higher education institutions whose goals include facilitating transfers from the community colleges to the State Colleges and the University. Members of the College Staff and Faculty will be visiting the community colleges in the greater Boston area to discuss the Management Program and to explore more specifically how the Management Program can dovetail with the preparation offered to students in these two-year institutions.

Inter-Institutional Cooperating During 1975-76 Continuing our efforts in the area of inter-institutional cooperation will be a major concern during the coming academic year. We hope to work out the details of an agreement with Northeastern so that our cooperative program with them can begin in September, 1976. In addition we plan to pay special emphasis upon working out cooperative relationships with community colleges in the Boston area and to extending our contacts with baccalaureate level programs in Management in the private sector.

Relations With Business and Government

At every step in the development of the College of Professional Studies UM/B has been concerned with understanding the perspectives of potential employers of our graduates. One of the first steps taken by the College, following Trustee approval of the Management Program, was to constitute a Special Committee on Management Education, drawing on persons from industry and government in the Boston area. This Committee held three meetings during the Spring of 1975 and was a major source of advice to the persons responsible for planning and staffing the Management Program. Through this group we began to explore the possibility of formal agreements by which employers would provide part-time employment for students working on their undergraduate degrees and would guarantee the students jobs upon successful completion of our program. Members of the Special Committee expressed particular interest in working with us in the area of preparing minority and female students for management positions.

Recently we have contacted all the businesses involved with the Boston Schools under Phase II of Boston's desegregation plan. We have offered to support their efforts to work with the secondary schools in whatever ways possible.

Future of Relations with Business and Government We see the Special Committee as the first step in building a network of relationships with various employers in the Boston area. We envision a variety of forms that such relationships might take.

Involvement of persons from industry and government in the instructional program. Our curriculum will be oriented toward the applications of skills and knowledge in practical settings. It is important that the students be aware of the perspectives of practicing managers on the material that is being studied in our classrooms. We therefore envision

extensive use of adjunct faculty members drawn from major institutions in the Boston area. We are considering a plan in which such persons would work with full-time faculty members from our program in team-taught courses. This would minimize the burden of course planning and organization on adjunct faculty and would provide our students with opportunities to participate in ongoing dialogues between teachers and practitioners.

Involvement of students in structured and supervised field experiences. We plan to create as many situations as we can in which our students attempt to put their skills to work on practical problems. We will do some of this through the use of case studies and simulations in classroom settings. We will also place a high value on developing opportunities for our students to work in institutional settings under appropriate supervision.

Development of special training and education programs for persons working in industry. We would hope to be able to make available packages of courses that would be useful for employed persons interested in improving their skills in specific ways. Such programs might be offered either as non-credit special courses or as credit bearing modules that could ultimately be incorporated in a degree program.

Involvement of management faculty in R and D for industry and government. Many of our faculty will be interested in applications and problem solving rather than theoretical research. We would hope to be able to work with institutions in the Boston area on specific problems or issues of importance to them. Such work could provide opportunities for field work by our students.

Development of triangular relationships with industry and high schools. Some major businesses in the Boston area are beginning to work with specific high schools in a variety of ways. One part of these efforts involves the early identification of and support of students interested in working toward administrative careers. We are interested in exploring the possibility of cooperative relationships between ourselves, high schools and industry in which students could be offered assurances of a continuous educational program through the baccalaureate degree, part-time and summer employment throughout this period, and a job upon successful completion of the entire program.

Involvement of persons from industry and government in ongoing evaluation and reshaping of curriculum. Because one major purpose of our program will be to prepare students for careers, we intend to build in a capacity to plan new programs or to modify established programs in response to new perceptions of need and opportunity. We would hope to be able to involve representatives of industry and government in our processes of self-criticisms and planning.

UNIVERSITY OF MASSACHUSETTS
AMHERST • BOSTON • WORCESTER

CHANCELLOR, UNIVERSITY
OF MASSACHUSETTS AT WORCESTER
DEAN OF THE MEDICAL SCHOOL
55 LAKE AVENUE NORTH
WORCESTER, MASSACHUSETTS 01605

August 5, 1975

TO: Secretary Gladys Keith Hardy

FROM: Acting Dean R. W. Butcher

SUBJECT: Report of the University of Massachusetts Medical School for the Fiscal Year Ending June 30, 1975

1. Appropriation for the Fiscal Year

1973-74	$5,389,804	(Maintenance, Actual Expense)
1974-75	* $7,265,620	(Maintenance Appropriation)

* Includes $300,000 fuel deficiency

2. Personnel--September 1973

Dean	1
Associate Deans	2
Professional Employees	26
Faculty	
Full-time	32
Part-time	19
Courtesy	235
Classified	80

September 1974

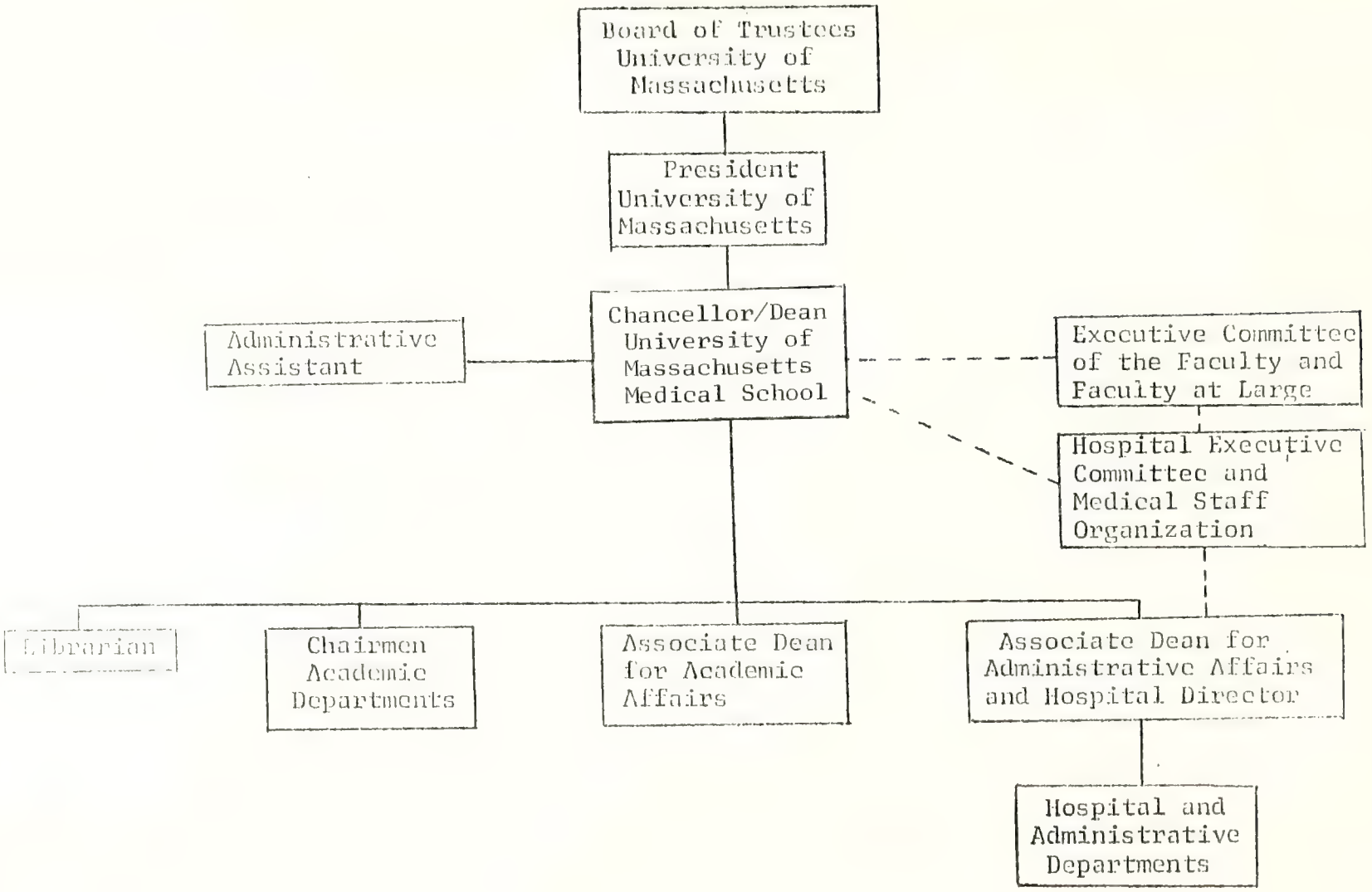
Dean	1
Associate Deans	2
Professional Employees	32
Faculty	
Full-time	48
Part-time	7
Courtesy	375
Classified	149

3. Organizational Chart is appended.

4. Number of Students--152

5. Faculty publications, research grants, research projects, and other professional activities are appended.

ORGANIZATIONAL CHART
UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL



6. Major accomplishments during the fiscal year 1974-75.

   a. Second graduation of 22 students, bringing the total number of Alumni to 38.

   b. Admission of 64 students in the fall of 1974, a class 60 percent larger than any previous one.

   c. The decision was made to accept 100 students for the entering class in September, 1975, and this number of students have been accepted.

   d. The first budget for hospital support was submitted as part of the school's maintenance budget for the year.

   e. The entire basic and clinical science building, as well as approximately one-third of the hospital, has been occupied.

   f. The first patients were seen in the hospital clinics in May.

7. Special projects or programs active during the fiscal year 1974-75.

   a. Recruitment of a large number of clinical department heads for appointment and arrival in the summer of 1975.

   b. Four and one-half million dollars of hospital equipment was ordered for arrival in the fall of 1975.

   c. Hospital supplies were stocked to the extent of $250,000 in order to open in the fall of 1975.

8. Future plans and needs.

   a. Development of completion of site construction.

   b. Development of adequate parking and residence facilities.

   c. Development of adequate budgetary support for growth of the school and hospital.

9. Any other timely or pertinent information.

   a. Dean Lamar Soutter retired in April because of ill health. He was presented an Honorary Degree by the University Trustees at Commencement in June, 1975.

   b. Dr. R. W. Butcher was appointed Acting Dean in April, 1975.

Respectfully submitted

R. W. Butcher, M.D.
Acting Dean

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

RECEIVED
JUN 17 1975
Chancellor and
Dean's Office

From Carlton M. Akins, M.D. Date June 16,1975

To Muriel Sawyer

Subject Annual Report Materiel

For the period July 1,1974 to June 30,1975, my professional activities have included the following:

Consultant, Worcester Orthopedic Clinic, Handicapped Children's Service, Department of Public Health, Worcester, Massachusetts

Medical Co-Director, Nursery Project (Multiply Handicapped Children), Massachusetts Hospital School, Canton, Massachusetts

Orthopedic Consultant, Myelodysplasia Clinic, Massachusetts Hospital School, Canton, Massachusetts

Orthopedic Consultant, Monson State Hospital, Department of Mental Health, Monson, Massachusetts

Active Orthopedic Staff: Massachusetts Hospital School, Canton, Massachusetts, and Tewksbury Hospital, Tewksbury, Massachusetts

Courtesy Orthopedic Staff: St. Vincent Hospital, Worcester, Massachusetts

Carlton M. Akins, M.D.
Assistant Professor
Orthopedic Surgery

E ST. VINCENT HOSPITAL of WORCESTER, MASSACHUSETTS 01610 - TELEPHONE 617-798-1234

NORMAN E. BEISAW, M.D.
Director, Orthopedic Education
St. Vincent Hospital
(617) 798-6072

Assistant Professor
Department of Orthopedics
University of Massachusetts
Medical School

2 June 1975

RECEIVED
JUN 3 1975
Chancellor and
Dean's Office

Ms. Muriel Sawyer
University of Massachusetts
Medical School
Worcester, Massachusetts 01605

Dear Ms. Sawyer:

RE: MEDICAL ANNUAL REPORT MATERIAL FOR THE PERIOD
1 JULY 1974 TO 30 JUNE 1975

Listed below is the information you requested in your letter of 29 April 1975:

1. Additions to Bibliography - None

2. Current Research Grants - None

3. Professional Activities: Assistant Professor, Department of Orthopedics
University of Massachusetts Medical School

Director of Orthopedic Education
St. Vincent Hospital

Director of Rehabilitative Medicine
St. Vincent Hospital

Director of Muscular Dystrophy Clinic
St. Vincent Hospital

Cont....

Chairman of Medical Advisory Committee to the
Muscular Dystrophy Association of America
Central Massachusetts Chapter

Director of Amputee Clinic
St. Vincent Hospital

Chairman of Patient Care Nursing Committee
St. Vincent Hospital

Member of Emergency Room & Outpatient
Department Committee
St. Vincent Hospital

Member of Advisory Committee to the School
of Nursing
St. Vincent Hospital

Sincerely yours,

Norman E. Beisaw, M.D.

NEB/dar

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Michael A. Bratt, Microbiology Date May 8, 1975

To Muriel Sawyer, Dean's Office

Subject Annual Report Material

1. Additions to Bibliography

Bratt, M.A., Collins, B.S., Hightower, L.E., Kaplan, J., Tsipis, J.E., and Weiss, S.R. Transcription and translation of Newcastle Disease Virus RNA. Negative Strand Viruses, Volume 1, p. 387-408, 1975.

Tsipis, J.E. and Bratt, M.A. Temperature sensitive mutants of Newcastle Disease Virus. Negative Strand Viruses, in press.

Gallaher, W.R. and Bratt, M.A. Conditional dependence of fusion from within and other cell membrane alterations by Newcastle Disease Virus. J. Virol., 14:813, 1974.

Hightower, L.E. and Bratt, M.A. Protein metabolism during the steady-state of NDV infection. I. Kinetics of amino acid and protein accumulation. J. Virol., 15:696, 1975.

Morrison, T.G., Weiss, S.R., Hightower, L.E., Collins, B.S., and Bratt, M.A. Newcastle Disease Virus protein synthesis. EMBO Inserm. Mtg., Thiverval-Grignon, France, 1975. (Abstract)

Bratt, M.A., Clinkscales, C.W., Collins, B.S., Hightower, L.E., Jacobson, A., Morrison, T.G., and Weiss, S.R. Single stranded RNAs from cells infected by Newcastle Disease Virus. 3rd Int. Cong. for Virology, 1975. (Abstract)

2. Current Research Grants

Transcription and Translation of NDV RNA. National Institutes of Allergy and Infectious Diseases. 6/1/74-5/31/77

Temperature-Sensitive Mutants as a Probe of NDV Infection. National Science Foundation. 11/1/74-4/30/76

3. Professional Activities

Editorial Board, Journal of Virology, 1/1/75-12/31/77

Virology Study Section, National Institute of Health, 7/1/75-6/30/78

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Neal C. Brown Date May 6, 1975

To Ms. Muriel Sawyer

Subject ANNUAL REPORT MATERIAL

Regarding your request for Annual Report Material for the period July 1, 1974 to June 30, 1975:

Additions to bibliography

Wright, G.E. and N.C. Brown, Synthesis of 6-(Phenylhydrazino)uracils and Their Inhibition of a Replication-Specific Deoxyribonucleic Acid Polymerase, J. Med. Chem., 17:1277, 1974.

Clements, J.E., J. D'Ambrosio, and N.C. Brown, Inhibition of Bacillus subtilis Deoxyribonucleic Acid Polymerase III by Phenylhydrzinopyrimidines: Demonstration of a Drug-Induced, DNA-Enzyme Complex. J. Biol. Chem., 250:522, 1975.

Current Research Grant

A Molecular Probe for the Study of DNA Replication
No. CA15915
Sponsored by U.S.P.H.S., National Cancer Institute

Professional Activities

1. Scientific Seminars, all of which had the title "Arylhydrazinopyrimidines: Mechanism of Inhibition of DNA Polymerase III of B. subtilis and Application to the Study of Enzyme Structure"; delivered at:
   Stanford University, March 13, 1975
   U. of California/Berkeley, March 14, 1975
   Brandeis University, April 29, 1975

2. Presentation at Cold Spring Harbor 1974 DNA Replication Meeting (September 1974) of a paper entitled "Inhibition of Bacillus subtilis Deoxyribonucleic Acid Polymerase III by Phenylhydrazinopyrimidines: Demonstration of a Drug-Induced, DNA-Enzyme Complex"

3. Other: Administration of the Affairs of the Department of Pharmacology
   University of Massachusetts Medical School
   Lecturer - Medical Pharmacology UMMS
   Chairman - Search Committee for Anesthesiology
   Member - Search Committee for the Dean/Chancellor of UMMS
   Reviewer - Research grants branch National Science Foundation

NCB/mc

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. William Burke Date June 18, 1975

To Muriel Sawyer

Subject Annual Report Material 1974-75

BIBLIOGRAPHY ADDITIONS

Burke, W.M.: Attitudes and the Utilization of Health Services JACHA;1974

Abstract Proceedings of The First Miami International Conference - Progress and Prospects in Health Care Distribution Systems, "Improving Access to Medical Care: An Interdisciplinary, Multi-Institutional Approach", Burke.W.M., O'Connor, J. pp 315-17, 1974.

PROFESSIONAL ACTIVITIES

Massachusetts Medical Society
Worcester District Medical Society
Assoc. of Teachers of Preventive Medicine
Society of Teachers of Family Medicine

RESEARCH GRANTS

	Sponsor
Primary Care Preceptorship	Dept. of Health Education & Welfare

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From R. W. Butcher, Ph.D. Date June 2, 1975

To Miss Muriel Sawyer

Subject Information for Annual Report

The following information is being furnished to you for inclusion in the Dean's Annual Report:

Additions to bibliography:

Hittelman, K.J., Bertin, R., and Butcher, R.W., Cyclic AMP metabolism in brown adipocytes of hamsters exposed to different temperatures. Biochim. et Biophys. Acta, 338:398 (1974).

Kelly, L.A., and Butcher, R.W., The effects of epinephrine and prostaglandin E_1 on cyclic AMP levels in WI-38 fibroblasts. J. Biol. Chem., 249:3098 (1974).

Kelly, L.A., Hall, M.S., and Butcher, R.W., Cyclic adenosine 3':5'-monophosphate metabolism in normal and SV40-transformed WI-38 cells. J. Biol. Chem., 249:5182 (1974).

Kelly, L.A., and Butcher, R.W., Studies on cyclic AMP metabolism in human epidermoid carcinoma (HEp-2) cells. Metabolism, 24:359 (1975).

Kelly, L.A., and Butcher, R.W., Cyclic AMP escape from cultured cells. (In preparation)

Butcher, R.W., Cyclic 3',5'-nucleotide phosphodiesterase from bovine hearts. In: Methods in Enzymology, J.G. Hardman and Bert W. O'Malley, Editors, Academic Press, New York, 38:218 (1974).

Butcher, R.W., and Robison, G.A., An appreciation of Earl Sutherland. Metabolism, 24:237 (1975).

Chlapowski, F.J., Kelly, L.A., and Butcher, R.W., Cyclic nucleotides in cultured cells. In: Advances in Cyclic Nucleotide Research, Vol. 6, P. Greengard and G.A. Robison, Eds., Raven Press (1975) (In press)

Chlapowski, F.J., and Butcher, R.W., Cyclic AMP metabolism of some fibroblastic and epithelial cells in vitro. In: Regulation of Function and Growth of Eukaryotic Cells by Intracellular Cyclic Nucleotides, NATO Advanced Study Institute, J.E. Dumont, B. Brown, and N. Marshall, Eds., Plenum Press, N.Y. (1975) (In press)

Current Research Grants:

National Institutes of Health
Title: Control of cyclic AMP levels.
Grant No. AM13904-06

General Research Support Grant (Program Director)
Grant No. RR05712-04

Research Overhead Trust Fund (Program Director)
Grant No. 08-035525

Professional Activities:

American Physiological Society

American Society of Biological Chemists

The Endocrine Society

The New York Academy of Sciences

Editorial Board, Journal of Molecular and Cellular Cardiology, London, 1972 -

Project Review Committee, The Memorial Hospital, Worcester, 1972 -

Senior Scientist (Affiliate), The Worcester Foundation for Experimental Biology, 1970 -

Metabolism Study Section, National Institutes of Health, 1974 -

Associate Editor, Journal of Cyclic Nucleotide Research, 1974 -

Chairman, Metabolism Study Section, National Institutes of Health, 1975 -

Acting Dean, University of Massachusetts Medical School, February 1975 -

Invited lectures, meetings, etc., July 1, 1974 to June 30, 1975:

September 11-14, 1974 - Study Section, NIH, Bethesda, Maryland

September 23 - October 3, 1974 - NATO A.S.I. Series (Lecture), Namur, Belgium

November 13-14, 1974 - Site Visit, NIH, Chicago, Illinois

November 21, 1974 - Site Visit, Philadelphia, Pennsylvania

January 16-18, 1975 - Study Section, NIH, Bethesda, Maryland

Invited lectures, meetings, etc., July 1, 1974 to June 30, 1975 (continued)

March 3, 1975 - Site Visit, NIH, Hanover, New Hampshire

March 24, 1975 - Consultant, Review of Department of Biochemistry, University of Vermont, Burlington, Vermont

March 28, 1975 - Lecture, Worcester City Hospital

May 20, 1975 - Lecture, Tufts University, Boston, Mass.

June 9-13, 1975 - Lecture and Chairman of Session, Gordon Conference on Cyclic Nucleotides, Meridan, New Hampshire

R. W. Butcher, Ph.D.
Professor and Chairman
Department of Biochemistry
Acting Dean of the Medical School

RWB:hs

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From W. H. J. Chang, M.D. Date June 12, 1975

To Muriel Sawyer

Subject Annual Report Material for Period July 1, 1974 to June 30, 1975

1. "In Vivo Effects of Orthovoltage in Radiation on Silicone Implants" (presented at the Symposium on Neoplastic and Reconstructive Problems of the Female Breast, March, 1975, Rutgers, University.) To be published in the Transactions of the 6th International Congress on Plastic and Reconstructive Surgery, June, 1975.

2. a. The use of pig skin venograph in the wound healing. The sponsor: Burn Treatment Skin Bank, Pheonix, Arizona.

b. Canine palatal contructure study, General Research Support Grant, U. Mass. Medical School.

3. This past year has been devoted to the unification of the Plastic Surgeons in Worcester to formalize and to organize a residency in Plastic Surgery involving the University, Memorial and St. Vincent Hospitals. We have expanded our involvement in the clinical curriculum of the 3rd year students to include a 6 week period of exposure to office practice of Plastic Surgery, formal Plastic Surgery Seminars and the Plastic Surgery Clinic at Memorial Hospital. We have made the initial steps and obtained the necessary equipment to venture into the area of microvascular surgery which will be an area of heavy emphasis within the next decade in Plastic Surgery in many other surgical specialties as well.

Other research collaborative efforts have been initiated with Dr. Guido Majno.

WHJC:mac

CURRICULUM VITAE

Francis J. Chlapowski

Born: February 28, 1944 in Newport, Rhode Island

Married - 4 children

Current Residence: Pebble Beach Road
Webster, MA
Tel: 943-3191

Academic Degrees:

1965	B.A., University of Massachusetts
1969	Ph.D., Michigan State University
1969	Post-doc, University of Colorado
1969-70	Post-doc, Harvard University

Awards, Fellowships, Grants and Positions:

1967-69	NIH Pre doctoral Fellowship Michigan State University
1969-70	NIH Post doctoral Fellowship University of Colorado and Harvard University
1971-75	NIH Research Grant May 1, 1971 to April 30, 1975
1974-76	Research Development Grant May 1, 1974 to April 30, 1976
1970-73	Assistant Professor of Anatomy (July 1, 1970) University of Massachusetts Medical School
1973-present	Associate Professor of Biochemistry (July 1, 1973) University of Massachusetts Medical School

Academic and Professional Societies:

Sigma Xi
American Association for the Advancement of Science
American Association of Anatomists
American Association of Cell Biologists
New England Electron Microscopical Society

Publications:

Tassava, R.A., F.J. Chlapowski and C.S. Thornton. 1968. Limb regeneration in Ambystoma larvae during and after treatment with adult pituitary hormones. J. Exp. Zool. 167:157.

Chlapowski, F.J. 1969. Isolation of the membrane systems of Acanthamoeba palestinensis: Studies of lipid synthesis and assembly of lipids into membranes. Ph.D. Thesis. Michigan State University.

Chlapowski, F.J. and R.N. Band. 1971. Assembly of lipids into membranes in Acanthamoeba palestinensis. I. Observations on the specificity and stability of choline-^{14}C and glycerol-^{3}H as labels for membrane phospholipids. J. Cell Biol., 50:625.

Chlapowski, F.J. and R.N. Band. 1971. Assembly of lipids into membranes in Acanthamoeba palestinensis. II. The origin and fate of glycerol-^{3}H labeled phospholipids of cellular membranes. J. Cell Biol., 50:634.

Chlapowski, F.J. 1971. Regularly arranged particles on the inner lamella of the plasma membrane of Acanthamoeba palestinensis. J. Cell Biol., 51:893.

Staehelin, L.A., F.J. Chlapowski and M.A. Bonneville. 1972. Luminal plasma membrane of the urinary bladder. I. Three-dimensional reconstruction from freeze-etch images. J. Cell Biol., 53:73.

Chlapowski, F.J., M.A. Bonneville and L.A. Staehelin. 1972. Luminal plasma membrane of the urinary bladder. II. Isolation and structure of membrane components. J. Cell Biol., 53:92.

Chlapowski, F.J. and R.W. Butcher. 1973. Subcellular distribution of adenyl cyclase and phosphodiesterase in Acanthamoeba palestinensis. Biochim. Biophys. Acta, 309:138.

Chlapowski, F.J., L.A. Kelly and R.W. Butcher. 1975. Cyclic nucleotides in cultured cells. In: Advances in Cyclic Nucleotide Research. (eds. P. Greengard and G.A. Robison) vol. 6, Raven Press, New York. (in press).

Chlapowski, F.J. and R. W. Butcher. 1975. Cyclic AMP metabolism of some fibroblastic and epithelial cells in vitro. In Growth and Function of Eukaryotic Cells: Role of Cyclic Nucleotide (Nato A.S.I. Series) Plenum Press, London (in press).

Chlapowski, F.J. 1975. The effects of hormones on cyclic adenosine 3':5'-monophosphate accumulation in transitional epithelium of the urinary bladder. J. Cyclic Nucleotide Res. (in press).

Chlapowski, F.J. 1975. Adenylyl cyclase and phosphodiesterase in transitional epithelium of the urinary bladder. (manuscript submitted).

Abstracts:

Chlapowski, F.J. and R.N. Band. 1968. The turnover of ^{14}C-choline in membranes and other cell components and its relation to culture medium radioactivity. J. Cell Biol., 39:24a.

Chlapowski, F.J. 1969. Incorporated and short-term turnover of tritiated glycerol in various membrane systems and organelles of Acanthamoeba palestinensis J. Cell Biol., 43:22a.

Chlapowski, F.J., 1971. The mosaic nature of the plasma membrane of Acanthamoeba palestinensis. Anat. Rec., 169:295a.

Staehelin, L.A., F.J. Chlapowski and M.A. Bonneville. 1971. Luminal plasma membrane of the urinary bladder. I. Three-dimensional reconstruction from freeze-etch images. J. Cell Biol., 47:200a.

Chlapowski, F.J., M.A. Bonneville and L.A. Staehelin. 1971. Luminal plasma membrane of the urinary bladder. II. Isolation and structure of membrane components. J. Cell Biol., 47:34a.

Chlapowski, F.J., J.A. Wolff and R.W. Butcher. 1972. Adenyl cyclase in the intracellular membranes of Acanthamoeba palestinensis. J. Cell Biol., 55:42a.

Chlapowski, F.J. 1973. The distribution of plaques composing the luminal plasma membrane of the urinary bladder as revealed by surface replication. Anat. Rec., 175:291.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From R. B. Clark, Ph.D., Biochemistry Date June 9, 1975

To Dean's Office

Subject Additions to Bibliography - Annual Report

1. Additions to Bibliography:

   a. Clark, R. B., Gross, R., Su, Y. F., Perkins, J. P. (1974). Regulation of cAMP Content in Human Astrocytoma Cells by Adenosine and the Adenine Nucleotides, J. Biol. Chem. 249 pp 5296-5303.

   b. Clark, R. B., Su. Y. F., Ortmann, R., Cubeddu, L., Johnson, G. L., and Perkins, J. P., (1975) Factors Influencing the Effect of Hormones on the Accumulation of Cyclic AMP in Cultured Human Astrocytoma Cells Metabolism, 24 pp 343-358.

   c. Ogilvie, J. W., Vickers, L. P., Clark, R. B., and Jones, M. M. (1975) Aspartokinase I - Homoserine Dehydorgenase I of Escherichia coli K12 (λ). Activation by Monovalent Cations and an Analysis of the Effect of the Adenosine Triphosphate-Magnesium Ion Complex on this Activation Process, J. Biol. Chem. 250, p 1242.

2. Research Grant:

   a. Grant Number 1 R01 GM 21420-01
      Support for 02 year (June 1, 1975 to May 31, 1976) $15,400

3. Professional Activities:

   Seminar: Regulation of cAMP Content in Intact Cultured Human Cells and in Broken Cell Preparations by Adenosine and Other Purine Nucleotides.

   Given March 20, 1975, Brown University.

RBC/sjb

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Sam L. Clark, Jr., M.D. Date June 27, 1975

To Muriel Sawyer

Subject Request for Annual Report Material

1. Clark, Sam L., Jr., Ontogeny of adrenal glucocorticoid secretion in young mice. (In preparation)

2. National Science Foundation #GB38360 (Clark and Schneider)
$38,000 5/1/73 through 10/31/75
Ontogeny of Immunity and the Lymphoid System

3. American Journal of Anatomy, Managing Editor, 1974 -
Association of American Medical Colleges, Council of Academic Societies, Representative of Association of Anatomy Chairmen, 1974 - 1975
Association of Anatomy Chairmen, President, 1974 - 1975

Sam L. Clark, Jr., M.D.
Professor and Chairman
Department of Anatomy

SLC/dsb

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Helen Cleary, D.Sc. Date June 18, 1975

To Muriel Sawyer

Subject Annual Report Material 1974-75

BIBLIOGRAPHY ADDITIONS

"Health Education - What Is It", paper prepared for use in in-service training of health educators in New England and for teaching of health education in School of Public Health, U.Mass/Amherst: publication pending.

RESEARCH GRANTS

None

PROFESSIONAL ACTIVITIES

President-Elect, Society for Public Health Education
Board Member, New England Chapter, Society for Public Health Education
Member, American Public Health Association, Member, Task Force on Prevention
Member, Massachusetts Public Health Association and Member of Panel on "Changing Roles of Health Professionals", October 1974
Member, New England Public Health Association
Member, New England Health Education Association
Consultant, Development of Consumer Advisory Committee, Family Health and Social Service Center, Worcester, Ma
Board Member, Visiting Nurse Association, Member, Program Committee and Finance Committee
Member, Planning Committee for Development of Patient Education Program, Massachusetts Blue Cross

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

RECEIVED

MAY 27 1975

Chancellor and Dean's Office

MEMORANDUM

From William J. Cooke, Ph.D. WJC Date May 27, 1975

To Muriel Sawyer

Subject Material for Annual Report

1. Additions to Bibliography

Papers:

Cooke, W.J., Berndt, W.O., and Mudge, G.H.: Effect of biliary stasis and hepatotoxins on the excretion of iopanoate in the rat. J. Pharmacol. Exp. Therap. 192: 618-629, 1975.

Cooke, W.J. and Mudge, G.H.: Biliary and urinary excretion of iopanoic acid in the dog. Invest. Radiol. 10: 25-34, 1975.

Mudge, G.H., Berndt, W.O. and Cooke, W.J.: Renal excretion of urea in the dog during onset and subsidence of diuresis. Am. J. Physiol. 227: 369-376,1974.

Abstracts:

Cooke, W.J. and Munck, L.: Biliary excretion of iopanoate glucuronide in rat. Fed. Proc. 34: 711, 1975.

2. Research Support:

National Institutes of Health (Arthritis, Metabolism and Digestive Diseases)
TITLE: Hepatic Excretion of Anionic Drugs.

3. Professional Activities:

A. Meetings Attended:

American Society for Pharmacology and Experimental Therapeutics
University of Montreal
Montreal, Canada
August , 1974

New England Pharmacologists
Brown University
Providence, Rhode Island
February, 1975

Federation of American Societies for Experimental Biology
Atlantic City, New Jersey
April, 1975

B. Society Membership

American Society for Pharmacology and Experimental Therapeutics
American Heart Association
Sigma Xi
American Society for the Advancement of Science

C. Committee Membership at UMASS Medical School

Admission Committee
Biomedical Computer Committee
Committee on Electives
Radiation Safety Committee

D. University Committee Membership

University Commuter on Telecommunications
University Advisory Committee on Academic Computing

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

RECEIVED

MAY 13 1975

Chancellor and Dean's Office

MEMORANDUM

From Bruce S. Cutler, M.D. Date 5/12/75

To Muriel Sawyer

Subject Annual Report -- Response to attached Memorandum

I. Additions to Bibliography:

The Modified Bovine Arterial Graft: A Clinical Study
Surgery. 76:963-973.

II. Current Research Grants etc.

A Contract Proposal has been submitted to the National Heart and Lung Institute for a three year study of "Non-Invasive Detection of Extra-Cranial Arterial Occlusive Disease by Arterial Impedance Plethysmography." We should have a decision regarding approval within the next 30 days.

III. Professional Activities

1. Full-time Staff Appointment, Department of Surgery.
2. Clinical Vascular Surgery at St. Vincent and Worcester City Hospitals
3. In charge of Development of Clinical and Research Vascular Laboratories at U. Mass. Medical Center
4. Service on the following Committess.
   a. Operating Room Committee
   b. Infection and Environmental Control Committee
   c. Operating room infection control Committee, Chairman
   d. Animal Care Committee
   e. Medical Center Safety Committee
   f. Human Studies Committee, Worcester Polytechnic Institute
   g. Pharmacy and Theraputics Committee

CURRICULUM VITAE

James E. Dalen, M.D.

Home Address:	126 Payson Road Chestnut Hill, Massachusetts 02167
Business Address:	University of Massachusetts Medical Center Department of Cardiovascular Medicine Worcester, MA 01605
Date of Birth:	April 1, 1932 Seattle, Washington
Education:	B.S. Washington State University 1955 M.A. University of Michigan 1956 M.D. University of Washington 1961 M.S. Harvard School of Public Health 1972

Hospital Appointments:

1961-1962	Intern (Medicine) Boston City Hospital
1962-1963	Assistant Resident (Medicine) Boston City Hospital
1963-1964	Resident in Medicine Tufts New England Medical Center
1964-1975	Peter Bent Brigham Hospital Assistant in Medicine (1964-67) Associate Director, Cardiovascular Lab (1967-73) Jr. Associate in Medicine (1967-68) Associate in Medicine (1968-70) Senior Associate in Medicine (1970-75)
1975-	University of Massachusetts Medical Center Director, Cardiovascular Medicine

Consultant in Cardiology:

1967-1975	Massachusetts Mental Health Center
1972-	Boston City Hospital
1973-	West Roxbury Veterans Administration Hospital

Academic Appointments:

1964-1975	Harvard Medical School Research Fellow in Medicine (1964-67) Instructor in Medicine (1967-69) Assistant Professor of Medicine (1969-74) Associate Professor of Medicine (1974-75)

CURRICULUM VITAE (2)

James E. Dalen, M.D.

Academic Appointments (cont):

1975-	University of Massachusetts Professor and Chairman, Department of Cardiova Medicine

Research Appointments:

1959, 1960	USPHS Undergraduate Research Fellow University of Washington
1964-1966	USPHS Postdoctoral Research Fellow Peter Bent Brigham Hospital
1966-1967	USPHS Special Research Fellow Peter Bent Brigham Hospital
1968-1970	Principal Investigator, Urokinase Pulmonary Embolism Trial, NHLI Peter Bent Brigham Hospital
1972-1975	Principal Investigator, Multiple Risk Factor Intervention Trial, NHLI Harvard University

Societies:

Fellow, American College of Physicians
Fellow, American College of Cardiology
Fellow, American College of Chest Physicians
Fellow, Council on Clinical Cardiology, American Heart Association
Massachusetts Medical Society
American Federation for Clinical Research
American Thoracic Society
American Public Health Association
Phi Beta Kappa
American Clinical and Climatological Society

Military Service:

1951-1953	U.S. Navy

Board Certification:

19[illegible]	Internal Medicine
1975	Cardiovascular Disease

PUBLICATIONS

James E. Dalen, M.D.

1. Dalen, J.E.: An analysis of the interaction of the environmental hypoxia of moderate altitude on the pathophysiology and clinical manifestations of ostium secundum type atrial septal defects. Thesis, University of Washington School of Medicine, Seattle, 1961.

2. Dalen, J.E., Bruce, R.A. and Cobb, L.A.: Interaction of chronic hypoxia of moderate altitude on pulmonary hypertension complicating defect of the atrial septum. New England J. Med. 266:272-277, 1962.

3. Dexter, L. and Dalen, J.E.: Urokinase therapy in acute pulmonary embolism. In: Workshop on Clinical Studies of Urokinase. St. Louis, Missouri, 1966, pp.165-185.

4. Dalen, J.E., Mathur, V.S., Evans, H., Haynes, F.W., Pur-Shahriari, A.A., Stein, P.D. and Dexter, L.: Pulmonary angiography in experimental pulmonary embolism. Am. Heart J. 72:509-520, 1966.

5. Dalen, J.E., Haynes, F.W. and Dexter, L.: Life expectancy with atrial septal defect: influence of complicating pulmonary vascular disease. JAMA 200: 442-446, 1967.

6. Stein, P.D., O'Connor, J.F., Dalen, J.E., Pur-Shahriari, A.A., Hoppin, F.G., Jr., Hammond, D.T., Haynes, F.W., Fleischner, F.G. and Dexter, L.: The angiographic diagnosis of acute pulmonary embolism: evaluation of criteria. Am. Heart J. 73:730-741, 1967.

7. Dalen, J.E. and Dexter, L.: The diagnosis and management of massive pulmonary embolism. Disease-A-Month, August, 1967.

8. Dalen, J.E., Haynes, F.W., Hoppin, F.G., Jr., Evans, G.L., Bhardwaj, P. and Dexter, L.: Cardiovascular responses to experimental pulmonary embolism. Am. J. Cardiol. 20:3-9, 1967.

9. Mathur, V.S., Dalen, J.E., Evans, H., Haynes, F.W., Pur-Shahriari, A.A., Stein, P.D. and Dexter, L.: Pulmonary angiography one to seven days after experimental pulmonary embolism. Invest. Radiol. 2:304-312, 1967.

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14. Dalen, J.E. and Dexter, L.: Pulmonary embolism. JAMA 207:1505-1507, 1969.

15. Dalen, J.E., Evans, G., Banas, J.S., Jr., Brooks, H.L., Paraskos, J.A. and Dexter, L.: Hemodynamic and respiratory effects of Diazepam (Valium®). Anesthesiology 30:259-263, 1969.

16. Dalen, J.E., Banas, J., Jr., Brooks, H., Evans, G., Paraskos, J. and Dexter, L.: Resolution rate of acute pulmonary embolism in man. New England J. Med. 280:1194-1199, 1969.

17. Deutsch, S. and Dalen, J.E.: Medical intelligence: indications for prophylactic digitalization. Anesthesiology 30:648-656, 1969.

18. Gazzaniga, A.B. and Dalen, J.E.: Paradoxical embolism: its pathophysiology and clinical recognition. Annals of Surgery 171:137-142, 1970.

19. Dalen, J.E.: Pulmonary angiography in pulmonary embolism. Bulletin de Physio-Pathologie Respiratoire. 6:45-63, 1970.

20. Brooks, H., Banas, J. Jr., Meister, S., Szucs, M. Jr., Dalen, J.E. and Dexter, L.: Sotalol-induced beta blockade in cardiac patients. Circulation 42:99-110, 1970.

21. Bass, H., Banas, J., Jr. and Dalen, J.E.: Pulmonary function studies: aid to the diagnosis of pulmonary embolism. Arch. Int. Med. 126:266-267, 1970.

22. McKenna, G., Engle, R.P., Jr., Brooks, H. and Dalen, J.E.: Cardiac arrhythmias during electroshock therapy: significance, prevention and treatment. Am. J. of Psychiatry 127:4 550-553, 1970.

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25. Dalen, J.E., Brooks, H.L., Johnson, L.W., Meister, S.G., Szucs, M., Jr. and Dexter, L.: Pulmonary angiography in acute pulmonary embolism: indications, techniques, and results in 367 patients. Amer. Heart J. 81:175-185, 1971.

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34. Grossman, W., Haynes, F., Paraskos, J., Saltz, S., Dalen, J.E. and Dexter, L.: Alterations in preload and myocardial mechanics in the dog and in man. Circulation Research 31:83-94, 1972.

35. Dalen, J.E. and Chesney, T.M.: Case records of the Massachusetts General Hospital. New England J. of Med. 287:456-462, 1972.

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37. Dalen, J.E. (Editor): Pulmonary Embolism. Medcom, Inc. New York, 1972.

38. Dexter, L. and Dalen, J.E.: The pathophysiology of pulmonary embolism. In: Pulmonary Embolism. Medcom, Inc. New York, 1972.

39. Dalen, J.E.: Diagnosis of acute pulmonary embolism. In: Pulmonary Embolism. Medcom, Inc. New York, 1972.

40. Paraskos, J.A., Adelstein, S.J., Smith, R.E., Rickman, F.D., Grossman, W., Dexter, L. and Dalen, J.E.: The late prognosis of acute pulmonary embolism. New England J. of Med. 289:55-58, 1973.

41. Alpert, J.S., Haynes, F.W., Knutson, P.A., Dalen, J.E. and Dexter, L.: Prostaglandins and the pulmonary circulation. Prostaglandins 3:759-765, 1973.

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45. Dexter, L. and Dalen, J.E.: Pulmonary embolism and acute cor pulmonale. Chapter in: Heart. Hurst, W. and Logue, B., Editors. McGraw-Hill, Inc. New York, 1974, pp.1264-1278.

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48. Alpert, J.S. and Dalen, J.E.: Pulmonary angiography in the diagnosis of pulmonary embolism. Int. Med. Dig. 9:17-22, 1974.

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52. Dalen, J.E.: Intracardiac shunts: detection, localization, and quantification. In: Cardiac Catheterization and Angiography. Grossman, W., Editor. Lea and Febiger, Philadelphia, 1974, pp.96-107.

53. Dalen, J.E.: Pulmonary angiography. In: Cardiac Catheterization and Angiography. Grossman, W., Editor. Lea and Febiger, Philadelphia, 1974, pp.131-140.

54. Dalen, J.E.: Hemodynamic profiles: acute pulmonary embolism. In: Cardiac Catheterization and Angiography. Grossman, W., Editor. Lea and Febiger, Philadelphia, 1974, pp.283-292.

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59. Dalen, J.E. and Dexter, L.: Pulmonary embolism. In: Practical Management of the Critically Ill Patient. Shubin, H. and Weil, M., Editors. Harper and Row, New York. IN PRESS

60. Dalen, J.E.: Clinical manifestation and diagnosis of pulmonary embolism. In: Pulmonary Embolism. Mobin-Uddin, K., Editor. Charles Thomas, Springfield, Illinois. IN PRESS

61. Dalen, J.E.: Natural history of pulmonary embolism. In: Pulmonary Embolism. Mobin-Uddin, K., Editor. Charles Thomas, Springfield, Illinois. IN PRESS

62. Howe, J.P., Alpert, J.S., Rickman, F.D., Spackman, D.G., Dexter, L. and Dalen, J.E.: Return of arterial pO_2 values to baseline after supplemental oxygen. Chest. 67:256-258, 1975.

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64. Dalen, J.E., Dexter, L., Ockene, I.S. and Carlson, J.: Precapillary pulmonary hypertension; its relationship to pulmonary venous hypertension. Transactions of the American Clinical and Climatological Association IN PRESS

65. Ockene, I.S. and Dalen, J.E.: The role of fibrinolytic agents in the treatment of thromboembolism. Current Cardiovascular Topics IN PRESS

66. Dexter, L., Brooks, H., Banas, J., Jr., Meister, S., Szucs, M., Jr. and Dalen, J.E.: Effects of sotalol on myocardial function in dogs and in patients with heart failure. In: Advances in Beta-Adrenergic Blocking Therapy Sotalol. Snart, A.G., Editor. Excerpta Medica, New York, 1974, pp.I-41-I-55.

67. Medicolegal Panel, American Heart Association: Medicolegal considerations and recommendations. In: Standards for Cardiopulmonary Resuscitation (CPR) and Emergency Cardiac Care (ECC). JAMA 227 (Suppl.):864-866, 1974.

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UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Robin I. Davidson, M.D. Date May 8, 1975

To Muriel Sawyer

Subject Material for Annual Report

(1) Additions to bibliography

Davidson, R.I & Lingley, J. Intraperitoneal pseudocyst: treatment by aspiration. Surgical Neurology, 4: 1975.

(2) None

(3) Board Certification - April 28, 1975 - American Board of Neurological Surgery
Assistant Professor of Neurosurgery, UMMS
Assistant Dean for Student Affairs, UMMS
Committees: Admissions, Electives, Financial Aid (Chairman)
Staff appointments: St. Vincent Hospital, Worcester City Hospital
Memorial Hospital
Consultant in Neurosurgery, Handicapped Children's Services, Department of Public Health, Commonwealth of Massachusetts
Postgraduate course, Cook County Graduate School of Medicine, Neurosurgery, 90 hours.

Professional Organizations: Worcester District Medical Society
Worcester Surgical Society, Massachusetts Medical Society
New England Neurosurgical Society, Congress of Neurological Surgeons.

RID:sej

1. Additions of Bibliography

DeGirolami, U., Haas, M. L. and Richardson, E. P., Jr. Subacute Diencephalic Angioencephalopathy J. Neurol. Sci 22:197-210, 1974

DeGirolami, U. and Heffner, R. Creutzfeldt-Jakob Disease
Ash, J. E. and Spitz, S. Pathology of Tropical Disease (In press)

Petito, C. K., DeGirolami, U. and Earle, K. M. Craniopharyngiomas: A clinical and pathological review Cancer (In press)

Crowell, R. M. and DeGirolami, U. Arteriovenous Malformation and Oligodendroglioma J. Neurosurg. (In press)

2. Research Grants

G.R.S. Grant 05712 Ultrastructural studies in would healing of the rat cerebral cortex.

3. Professional Activities

a. Committees at U.M.M.S.

1. Animal Care Advisory Committee
2. Graduate Studies Committee
3. General Faculty Committee Interviewing for Dean
4. Search Committee - Department of Neurology

b. Certificates

American Society of Clinical Pathologists - College of American Pathologists present the Pathology Continuing Medical Education Certificate 1975-1977

Letter of Commendation - U. S. Department of Defense 9 - 1974

c. Memberships - Mass. Medical Society - 1975

d. Research Activities

1. Role of astrocytes in the healing of cortical wounds - ultrastructural studies on wound healing in the cerebral cortex in rat.

2. Developing cortical infarction - detection and sizing of acute cerebral infarcts produced by clipping of the middle cerebral artery in monkeys.

3. Investigations on early skeletal muscle necrosis - significance of the "wavy"fiber in animal muscular dystrophies.

Umberto DeGirolami, M. D.

UDeG/jmm

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From J. G. Dobson, Jr. Date June 4, 1975

To Muriel Sawyer

Subject Information for Annual Report

1. Additions to bibliography: please see attached C.V.

2. Research Grants:

Massachusetts Heart Association, Grant-in-Aid, entitled:

Control of Cardiac Contractility and Coronary Flow.

3. Professional Activities:

Participant in Worcester Foundation-University of Massachuestts Medical School Joint Science Session.

Board of Directors of Central Chapter, American Heart Association Massachusetts Affiliate.

J. G. Dobson

June 1975

CURRICULUM VITAE

Name: James Gordon Dobson, Jr.

Born: Waterbury, Connecticut, January 23, 1942.

Married: Susan Bentley Jones, August 28, 1971.

Children: Sarah Bentley Dobson, March 19, 1975.

Education:

B.S., Central Connecticut State College, New Britain, June 1965.

M.A., Biology, Wesleyan University, Middletown, Connecticut, June 1967.

Ph.D., Physiology, University of Virginia, Charlottesville, June 1971.

Experience & Fellowships:

1965-1967, Graduate Teaching Assistant, Biology Department, Wesleyan University.

1967-1971, U.S. Public Health Service Predoctoral Fellow, Department of Physiology, School of Medicine, University of Virginia, Charlottesville.

1971-1973, NIH (National Heart and Lung Institute) Post-doctoral Fellow, Division of Pharmacology, Department of Medicine, School of Medicine, University of California, San Diego.

1973-1974, Giannini Foundation (Bank of America) Post-doctoral Fellow and Assistant Research Pharmacologist, Division of Pharmacology, Department of Medicine, School of Medicine , University of California, San Diego.

1974- , Assistant Professor of Physiology, University of Massachusetts Medical School, Worcester, Massachusetts.

Professional Organizations:

American Association for the Advancement of Science

American Heart Association

American Physiological Society

International Study Group for Research in Cardiac Metabolism

Sigma Xi

PUBLICATIONS

1. Dobson, Jr., J.G. and G.W. Kidder III. Edge damage effect in *in vitro* frog skin preparations. Amer. J. Physiol. 214: 719-724, 1968.

2. Dobson, Jr., J.G., R. Rubio and R.M. Berne. Adenine nucleotide degradation in heart and skeletal muscle. The Physiologist 13: 181, 1970.

3. Wiedmeier, V.T., R. Rubio, J.G. Dobson, Jr. and R.M. Berne. Effects of hypoxia on coronary flow and adenosine concentrations. Circulation, 42: 62, 1970.

4. Dobson, Jr., J.G. and R.M. Berne. Adenine nucleotides and skeletal muscle blood flow. Circulation, 42: 72, 1970.

5. Berne, R.M., R. Rubio, J.G. Dobson, Jr., and R.R. Curnish. Adenosine and adenine nucleotides as possible mediators of cardiac and skeletal muscle blood flow regulation. Circ. Res. 28 & 29: (Suppl 1), 115-119, 1971.

6. Dobson, Jr., J.G. and R.M. Berne. Release of adenosine from ischemic contracting skeletal muscle. Fed. Proc. 30: 716, 1971.

7. Dobson, Jr., J.G., R. Rubio and R.M. Berne. The role of adenine nucleotides, adenosine and inorganic phosphate in the regulation of skeletal muscle blood flow. Circ. Res. 29: 375-384, 1971.

8. Dobson, Jr., J.G. and S.E. Mayer. The role of cyclic AMP in the formation of cardiac phosphorylase a in ischemia and anoxia. Circulation 46: 147, 1972.

9. Dobson, Jr., J.G. and S.E. Mayer. The role of cyclic AMP in the formation of glycogen phosphorylase a in the ischemic and anoxic working heart. Fed. Proc. 32: 345, 1973.

10. Rubio, R., R.M. Berne and J.G. Dobson, Jr. Sites of adenosine production in cardiac and skeletal muscle. Amer. J. Physiol. 225: 938-953, 1973.

11. Dobson, Jr., J.G. and S.E. Mayer. Mechanisms of activation of cardiac glycogen phosphorylase in ischemia and anoxia. Circ. Res. 33: 412-420, 1973.

12. Dobson, Jr., J.G., G.E. Schwab, J. Ross, Jr. and S.E. Mayer. Cyclic AMP and induced alterations in inotropic state in papillary muscle. Fed. Proc. 33: 479, 1974.

13. Dobson, Jr., J.G., G.E. Schwab, J. Ross, Jr. and S.E. Mayer. Comparison of the biochemical composition of four preparations of contracting cardiac muscle. Amer. J. Physiol. 227: 1452-1457, 1974.

14. Henry, P.D., J.G. Dobson, Jr. and B.E. Sobel. Dissociations between changes in myocardiac cyclic adenosine monophosphate and contractility. Circ. Res. 36: 392-400, 1975.

15. Mayer, S.E., J.G. Dobson, Jr., S.R. Gross, J.C. Khoo and D. Steinberg. Cyclic nucleotide participation in the metabolic responses of cardiac muscle and adipose tissue. Symposium on Cyclic Nucleotide in Disease. (In Press).

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Michael J. Dul, Ph.D. Date May 7, 1975

To Muriel Sawyer, Administrative Asst.

Subject Annual Report Material

addition to bibliography:

LaScolea,L.J., Dul, M.J., and F.E. Young. 1975. Stability of Pathogenic Colony types of Neisseria gonorrhoeae in Liquid Culture by Using the Parameters of Colonial Morphology and Deoxyribonucleic Acid Transformation. Journal of Clinical Microbiology 1 (2):165-170.

current research grant:

source; General Research Support

title; Genetics of surface components in Neisseria gonorrhoeae.

Annual Report Material

for

Dean's Office

1. Additions to bibliography:

   1. Fay, Fredric S., Peter H. Cooke, and Peter G. Canaday. Contractile Properties of Isolated Smooth Muscle Cells. In: Proceedings of the International Symposium on Smooth Muscle in Kiev. Raven Press, 1975. In Press

   2. Singer, Joshua J., and Fredric S. Fay. Isolated smooth muscle cells in suspension. I. Detection of contraction. In preparation.

   3. Fay, Fredric S., and Joshua J. Singer. Isolated smooth muscle cells in suspension. II. Characterization of the cholinergic receptors. In preparation.

   4. Murray, John M., Peter W. Reed, and Fredric S. Fay. Effects of the divalent cation ionophore A23187 on isolated smooth muscle cells. Submitted for publication.

   5. Canaday, Peter G., and Fredric S. Fay. A low drift, high sensitivity force transducer for use on isolated muscle cells. In preparation.

2. List of current research grants, including sponsor and title:

   1. Generation and Regulation of Force in Smooth Muscle. National Institutes of Health. June 1974 - June 1977.

   2. Recipient, Research Career Development Award. National Institutes of Health. 1975-1980.

FREDRIC S. FAY, PH. D.
Department of Physiology
U. Mass. Medical Center
55 Lake Ave., N.
Worcester, Ma 01605

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Joel D. Feinblatt Date June 6, 1975

To Muriel Sawyer

Subject Annual Report Material

For the period July 1, 1974 to June 30, 1975.

1. Addition to bibliography

Feinblatt, J.D., L-R. Tai and A.D. Kenny, "Avian Parathyroid Glands in Organ Culture: Secretion of Parathyroid Hormone and Calcitonin", Endocrinology, 96: 282-288, 1975.

2. Current Research Grant

Public Health Service Grant #AM 16550-02.
Title - Secretion of Calcitonin.

3. Professional Activities

a. As Assistant Dean for Admissions - spoke to the premedical societies of:

M.I.T., Brandeis, U. Mass. Boston, U. Mass. Amherst, Assumption College, and Holy Cross College.

b. Attended the following research oriented meetings:

1. Gordon Conference on Bones and Teeth (July 1974).

2. Presented a paper at the Second Annual Meeting of the New England Endocrinology Conference (December 1974).

3. The Annual Meeting of the Endocrine Society, (June 1975).

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Joel D. Feinblatt Date June 6, 1975

To Muriel Sawyer

Subject Annual Report Material

For the period July 1, 1974 to June 30, 1975.

1. Addition to bibliography

Feinblatt, J.D., L-R. Tai and A.D. Kenny, "Avian Parathyroid Glands in Organ Culture: Secretion of Parathyroid Hormone and Calcitonin", Endocrinology, 96: 282-288, 1975.

2. Current Research Grant

Public Health Service Grant #AM 16550-02.
Title - Secretion of Calcitonin.

3. Professional Activities

a. As Assistant Dean for Admissions - spoke to the premedical societies of:

M.I.T., Brandeis, U. Mass. Boston, U. Mass. Amherst, Assumption College, and Holy Cross College.

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1. Gordon Conference on Bones and Teeth (July 1974).

2. Presented a paper at the Second Annual Meeting of the New England Endocrinology Conference (December 1974).

3. The Annual Meeting of the Endocrine Society, (June 1975).

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Professor J.P. Flatt, Biochemistry Depart. Date June 10, 1975

To Ms. Muriel Sawyer

Subject ANNUAL REPORT MATERIAL (July 1, 1974 - June 30, 1975)

1. Additions to bibliography

G.L. Blackburn and J.P. Flatt: Substrate profile in protein wasting states. In: "Protein Nutrition", H. Brown (editor), C.C. Thomas, Publ., Springfield, Ill., 1974, p. 201.

Abstracts:

J.P. Flatt and G.L. Blackburn: Role of the increased adipose tissue mass in the apparent insulin insensitivity of obesity. 1st International Congress on Obesity, Oct., 1974, London.

G.L. Blackburn, B.R. Bistian, J.P. Flatt: Role of protein sparing modified fat in a comprehensive weight reduction program. 1st International Congress on Obesity, Oct., 1974, London.

G.L. Blackburn, B.R. Bistian, J.P. Flatt: Reservation of physiological responses in a protein sparing modified fast. Clin. Res., 22, 461A, 1974.

G.L. Blackburn, R. Heddle, J.P. Flatt: Energy fuel utilization and protein loss during surgery. Clin. Res., 22, 709A, 1974.

G.L. Blackburn, B.R. Bistrian, J.P. Flatt, G. Page, and M. Stone: Restoration of the visceral component of protein malnutrition using hypocaloric feeding. Clin. Res., 23, 1975.

2. Research Grants

"Fat Mobilization and Protein Sparing Therapy", NIH Grant AM 17456

"Study on the Control of Lipogenesis in Adipose Tissue", NIH Grant AM 17352

3. Professional Activities

UMMS Committee on Graduate Studies, Chairman

Associate in Surgery, Harvard Medical School, Boston

Society Memberships: Am. Soc. Biol. Chem.
Europ. Assoc. Study of Diabetes

JPF/gab

CURRICULUM VITAE

John J. Frey, M.D.

BORN:	October 31, 1944
WIFE:	Julianne Hron
CHILDREN:	Benjamin Zachary, 1971
EDUCATION:	1966 - B.A. - University of Notre Dame 1970 - M.D. - Northwestern University School of Medicine
INTERNSHIP:	1970 - 1971, Rotating, Cook County Hospital, Chicago, Illinois 6 months Medicine, 6 months Pediatrics Intern representative to Executive Committee of the Residents and Interns Association of Cook County Hospital Selected as outstanding teacher of clinical medicine by the Junior class, University of Illinois Medical School, 1971
RESIDENCY:	1971 - 1973, Family Practice Residency, University of Miami Family Medicine Residency Program Member elected to Resident Steering Committee, Department of Family Medicine, 1971-1972. Member elected to Resident Selection Committee, Department of Family Medicine, 1972-1973.
MILITARY STATUS:	4-W
LANGUAGES:	Fluent Spanish
BOARD CERTIFICATION:	1974 - Diplomate, American Board of Family Practice 1971 - National Board of Medical Examiners, Diplomat
MEDICAL LICENSURE	1971 - Florida 1973 - Massachusetts

PRESENT TEACHING APPOINTMENT:

1973 - present, Assistant Professor, Department of Community & Family Medicine, University of Massachusetts Medical School, 55 Lake Avenue, North, Worcester, MA

PRESENT HOSPITAL APPOINTMENTS:

1973 - present, Worcester City Hospital, Active Staff
1973 - present, Holden District Hospital, Courtesy Staff
1973 - present, Worcester Hahnemann Hospital, Courtesy Staff

PROFESSIONAL ORGANIZATIONS:

American Academy of Family Physicians
Florida Academy of Family Physicians
Massachusetts Academy of Family Physicians, Active Member

NATIONAL ORGANIZATIONS:
Medical Committee for Human Rights

LOCAL ORGANIZATIONS:
Acting Medical Director, Model Cities Health & Social Service Center, Worcester, MA
Medical Advisory Committee, Model Cities Health & Social Service Center, Worcester, MA
Massachusetts Heart Association
Medical Advisory Committee, Massachusetts Rehabilitation Center
Board of Directors, The Family Planning Foundation, Inc.
Paxton Board of Health, 1975
Education Committee, Worcester City Hospital

WORK EXPERIENCE:
Day Care teacher, medical out-reach worker with United Migrant Services, Hancock, Wisconsin, Summer, 1967.

Assisted implementation and design of day care screening project for health needs of inner city children, Chicago, Illinois, January-April, 1969.

Four months elective time spent in Laredo, Texas and in the Rio Grande Valley doing general practice, general surgery, and public health, April-July, 1969.

Medical organizer of free community controlled health center in Mexican neighborhood of Chicago, the Benito Juares Peoples Health Center, Member Board of Directors, January, 1970-June, 1971.

BIBLIOGRAPHY

John J. Frey, M.D.

1. Frey, John J., Gilson, George., McDermott, Joan, Meyer, Roger J.: Raising the Level of Child Health in Day Care. In: Child Welfare, Vol. L., No. 2, February, 1971

2. Frey, John J., Rootabaga Country, Editor and contributor, Literary Journal of Northwestern University School of Medicine.

3. Frey, J.J., Cauthen, D.B., Letter, "Family Medicine Graduates - Emergence of a New Physician", Journal of Medical Education, 48: 1040-1, Nov., 1973.

4. TO BE PUBLISHED IN THE JOURNAL OF MEDICAL EDUCATION
"Resident Participation in Residency Programs", Frey, J.J., Engebretsen, B.J., Olson, J.W., Carmichael, L.P.

GRANTS

To Develop A Common Patient Care Record System For The Three Family Health Centers In Central Massachusetts In Conjunction With The University of Massachusetts Medical School - Submitted to: Tri-State Regional Medical Program

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Hugh S. Fulmer, M.D. Date June 17, 1975

To Muriel Sawyer

Subject Annual Report Material 1974-75

BIBLIOGRAPHY ADDITIONS

Fulmer, H.S. An Approach to the Teaching of Epidemiology: The Challenges of Community Medicine, Robert L. Kane Editor; Springer Publishing Co. 1974 pp.335-349.

RESEARCH GRANTS

Sponsor	Title
Central Mass Lung Association	Cigarette Smoking Study
BHE Title I	Physician Manpower Study in Central Mass.
Mellon Fund	Course on "The Family"

PROFESSIONAL ACTIVITIES

Local
- Central Mass Lung Association: Board of Directors
- Central Mass Chapter Red Cross Blood Bank: Board of Directors
- Worcester District Medical Society: Councillor to Mass Medical Society
- Visiting Nurse Association: Board of Managers

State & Region
- Member, Committee on Primary Medical Care, Medical Education Foundation
- Member, Mass Public Health Association
- Member, Society of Internal Medicine - Mass Chapter
- American Medical Association: Regional Committee on Rural Health
- Easter Seal Society: Program Committee
- Harvard Public Health Alumni Association: Assoc. Harvard Alumni Board of Directors Representative
- Lead Poisoning Prevention Program: Governor's Advisory Committee

Nat'l
- President Elect: Association of Teachers of Preventive Medicine
- Member, American Public Health Association
- Member, Society of Teachers of Family Medicine
- Member, American Association for the Advancement of Science

CURRICULUM VITAE

Richard R. Gacek, M.D.

rn	February 23, 1930 Buffalo, New York
48-1952	University of Notre Dame, South Bend, Indiana Graduated with B.S., magna cum laude
52-1956	University of Buffalo Medical School, Buffalo, New York M.D. in 1956
56-1957	Internship - Sisters of Charity Hospital, Buffalo, New York
57-1960	Research Associate, Laboratory Neuro-anatomical Sciences, National Institute of Health, Bethesda, Maryland
60-1961	Residency in General Surgery, Henry Ford Hospital Detroit, Michigan
61-1964	Residency in Otolaryngology, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts
64-1966	Assistant in Otolaryngology, Harvard Medical School and Massachusetts Eye and Ear Infirmary
67-1970	Assistant Surgeon, Massachusetts Eye and Ear Infirmary
66-1968	Instructor in Otolaryngology, Harvard Medical School
68-1969	Associate in Otolaryngology, Harvard Medical School
69-1970	Assistant Professor in Otolaryngology, Harvard Medical School
70-1975	Associate Professor in Otolaryngology, Harvard Medical School
70-1975	Associate Surgeon, Massachusetts Eye and Ear Infirmary
75-	Chairman of Otolaryngology, University of Massachusetts Medical School, Worcester

MBERSHIPS

Diplomat American Board of Otolaryngology (1966)
American Academy of Ophthalmology and Otolaryngology
American Medical Association
American Association of Anatomists
American College of Surgeons
American Neurotology Society
Society of University Otolaryngologists
Massachusetts Medical Society
American Otological Society
New England Otolaryngological Society
American Laryngological, Rhinological, Otological Society
American Society for Head and Neck Surgery
Barany Society

RICHARD R. GACEK, M.D.

HONORS

1956	Baccelli Medical Club Award (for research) - University of Buffalo
1962	Research Honor Award - Academy of Ophthalmology and Otolaryngology
1971	Edmund Prince Fowler Award - Triological Society

COMMITTEES

Trustee, American Otological Society

Chairman, Scientific Review Committee, Deafness Research Foundation

Associate Editor, Annals of Otology, Rhinology and Laryngology

LICENSURES

Massachusetts

New York

Maryland

RESEARCH PROJECT: "Fiber Projections of the Vestibular Nuclei", NINDS, National Institute of Health

RICHARD R. GACEK, M.D.

PUBLICATIONS

1. Gacek, R.R.: Efferent Component of the Vestibular Nerve. Chapter 20 in Neural Mechanisms of the Auditory and Vestibular Systems, pp. 276-284, ed. Rasmussen, G.L. and Windle, W., Charles C. Thomas, Illinois, 1960.

2. Rasmussen, G.L., Gacek, R.R., McCrane, E.P. and Baker, C.C.: Model of Cochlear Nucleus (cat) Displaying its Afferent and Efferent Connections. The Anatomical Record 136:344- , 1960 (Abstract)

3. Gacek, R.R. and Rasmussen, G.L.: Fiber Analysis of the Statoacoustic Nerve of Guinea Pig, Cat, and Monkey. The Anatomical Record 139:455-463, April 1961.

4. Gacek, R.R.: The Macula Neglecta in the Feline Species. J. Comp. Neurol. 116:317-323, June 1961.

5. Gacek, R.R.: The Efferent Cochlear Bundle in Man. Arch. Otolaryng. 74:690-694, December 1961.

6. Gacek, R.R.: Membranous Inner Ear. Ann. Otol. Rhinol. Laryng. 70:974-975, December 1961.

7. Spoendlin, H.H. and Gacek, R.R.: Electronmicroscopic Study of the Efferent and Afferent Innervation of the Organ of Corti in the Cat. Ann. Otol. Rhinol. Laryng. 72:660-687, September 1963.

8. Gacek, R.R.: The Vestibular Efferent Pathway. Chapter in Vestibular System and Its Diseases, pp. 99-116, ed. Wolfson, R.J., U. Penn. Press, Philadelphia, Pa., 1966.

9. Nomura, Y., Gacek, R.R. and Balogh, K., Jr.: Efferent Innervation of Vestibular Labyrinth. Arch. Otolaryng. 81:335-339, April 1965.

10. Schuknecht, H.F., Igarashi, M. and Gacek, R.R.: The Pathological Types of Cochleo-Saccular Degeneration. Acta Otolaryng. 59:154-167, 1965.

11. Gacek, R.R., Nomura, Y. and Balogh, K.: Acetylcholinesterase Activity in the Efferent Fibers of the Stato-Acoustic Nerve. Acta Otolaryng. 59:541-553, 1965.

12. Gacek, R.R.: Afferent Auditory Neural System. Chapter 4 in Henry Ford Hospital Symposium on Sensorineural Hearing Processes and Disorders, pp. 49-60, ed. Graham, A.B., Little Brown & Co., Boston, 1965.

13. Gacek, R.R. and Zonis, R.: Carotid Artery Protection with Levator Scapulae Muscle. Arch. Otolaryng. 84:198-200, 1966.

14. Gacek, R.R.: Ear - Normal and Pathological Reactions. Chapter in Histology and Pathology of Human Central Nervous System, ed. Haymaker, W. and Adams, R. (In Press).

15. Ishii, T., Murakami, Y. and Gacek, R.R.: Histochemical Study of the Acetylcholinesterase Activity in the Inner Ear of the Squirrel Monkey. Acta Otolaryng. 69:267-279, 1967.

16. Gacek, R.R.: Anatomical Evidence for an Efferent Vestibular Pathway. Third International Symposium on the Role of Vestibular System in Man's Exploration of Space, pp. 203-213, Pensacola, Florida, January 1967.

17. Gacek, R.R.: Neuroanatomical Pathways of the Vestibular System. Neurotology Symposium. Ann. Otol. Rhinol. Laryng. 77:210-215, April 1968.

18. Gacek, R.R.: The Innervation of the Vestibular Labyrinth. Ann. Otol. Rhinol. Laryng. 77:676-685, August 1968.

19. Gacek, R.R. and Schukmecht, H.F.: Pathology of Presbycusis. International Audiology 8:199-209, May 1969.

20. Gacek, R.R.: Morphological Aspects of the Efferent Vestibular System. Chapter IV in Handbook of Vestibular Physiology, Springer-Verlag, Berlin 1975

21. Gacek, R.R.: The Course and Central Termination of First Order Neurons Supplying Vestibular Endorgans in the Cat. Acta Otolaryng. Supp. 254, 1969.

22. Montandon, P., Gacek, R.R. and Kimura, R.S.: Crista Neglecta in the Cat and Human. Ann. Otol. Rhinol. Laryng. 79:105-112, February 1970.

23. Gacek, R.R.: The Diagnosis and Treatment of Poststapedectomy Granuloma. Ann. Otol. Rhinol. Laryng. 79:970-975, October 1970.

24. Gacek, R.R.: Pathology of Hereditary Sensorineural Hearing Loss. Ann. Otol. Rhinol. Laryng. 80:289-299, April 1971.

25. Gacek, R.R.: Anatomical Demonstration of the Vestibulo-ocular Projections in the Cat. Laryngoscope 81:1559-1595, October 1971.

26. Gacek, R.R.: Anatomical Demonstration of the Vestibulo-ocular Projections in the Cat. Acta Otolaryng. Supp. 293, 1971.

27. Gacek, R.R.: Neuroanatomy of the Auditory System. Chapter 6 in Foundations of Modern Auditory Theory, Vol. II, pp. 239-262, ed. Tobias, J.V., Academic Press, New York and London, 1972.

28. House, J.M., Goodman, M.L., Gacek, R.R. and Green, G.L.: Chemodectomas of the Nasopharynx. Arch. Otolaryng. 88:138-141, August 1972.

29. Miller, D., Silverstein, H. and Gacek, R.R.: Cryosurgical Treatment of Carcinoma of the Ear. Trans. Amer. Acad. Ophthal. & Otolaryng. 76:1363-1367, September-October 1972.

30. Walsh, B.T., Miller, J.B., Gacek, R.R. and Kiang, N.Y.S.: Spontaneous Activity in the Eighth Cranial Nerve of the Cat. Intern. J. Neuroscience 3:221-236, 1972.

31. Gacek, R.R.: Anatomical Studies on the Vestibulo-ocular Pathways in the Cat. Adv. Oto-Rhino-Laryng. 19:66-75, Karger, Basel, 1973.

32. Gacek, R.R.: Anatomy of the Ear. Chapter in Anatomy of the Guinea Pig. Schiller, A. (In Press).

. Gacek, R.R.: Symposium on Tympanoplasty. I. Results of Modified Type V Tympanoplasty. Laryngoscope 83:437-447, April 1973.

. Gacek, R.R.: Surgery on "Only-Hearing" Ears with Chronic Suppurative Middle Ear Disease. Ann. Otol. Rhinol. Laryng. 82:290-296, May-June 1973.

. Gacek, R.R.: Afferent and Efferent Innervation of the Vestibular Labyrinth. Vestibular Symposium, University of Chicago (In Press).

. Schuknecht, H.F. and Gacek, R.R.: Surgery on Only-Hearing Ears. Trans. Amer. Acad. Ophthal. & Otolaryng. 77:257-266, July-August 1973.

. Gacek, R.R.: A Cerebellocochlear Nucleus Pathway in the Cat. Exp. Neurol. 41:101-112, October 1973.

. Gacek, R.R.: The Surgical Management of Labyrinthine Fistulae in Chronic Otitis Media with Cholesteatoma. Ann. Otol. Rhinol. Laryng. Supp. 10, Vol. 83, January-February 1974.

. Gacek, R.R. and Lyon, M.: The Localization of Vestibular Efferent Neurons in the Kitten Using Horseradish Peroxidase. Acta Otolaryng. 77:92-101, 1974.

. Gacek, R.R.: Transection of the Posterior Ampullary Nerve for the Relief of Benign Paroxysmal Positional Vertigo. Ann. Otol. Rhinol. Laryng. 85:596-605, September-October 1974.

. Gacek, R.R.: Localization of Neurons Supplying the Extraocular Muscles in the Kitten Using Horseradish Peroxidase. Exp. Neurol. 44:381-403, 1974.

. Gacek, R.R.: Afferent and Efferent Connections of the Vestibular Nerve. Barany Society Symposium on Ménière's Disease. June 1974 (In Press).

. Gacek, R.R.: Degenerative Hearing Loss in Aging. Houston Neurological Symposium on Neurosensory Disorders in the Elderly (In Press).

. Gacek, R.R.: Diagnosis and Management of Primary Tumors of the Petrous Apex. Ann. Otol. Rhinol. Laryng. Supp. 18, Vol. 84, January-February 1975.

. Gacek, R.R.: Localization of Laryngeal Motor Neurons in the Kitten. Laryngoscope (In Press).

. Gacek, R.R.: Hereditary Abductor Vocal Cord Paralysis. (Accepted by Annals for publication).

. Gacek, R.R.: Schwannoma of the Jugular Foramen. (Submitted to the Annals).

. Gacek, R.R.: An Experimental Anatomical Study of the Fiber Components in the Cat's Recurrent Laryngeal Nerve. (In Preparation).

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Susan B. Gagliardi Date June 9, 1975

To Dean's Office

Subject Annual Report Material

1. Additions to bibliography:

Billings-Gagliardi, Susan, Henry deF. Webster and Maureen F. O'Connell In Vivo and Electron Microscopic Observations on Schwann Cells in Developing Tadpole Nerve Fibers. Am.J. Anat. 141: 375-392, 1974.

Billings-Gagliardi, S., V. Chan-Palay, and S.L. Palay A review of lamination in Area 17 of the visual cortex of Macaca mulatta. J. Neurocytol. 3: 619-629, 1974.

Chan-Palay, V., S.L. Palay and S.M. Billings-Gagliardi Meynert cells in the primate visual cortex. J. Neurocytol. 3: 631-658, 1974.

Palay, S.L., S. Billings-Gagliardi, and V. Chan-Palay Neuronal Perikarya with Dispersed, Single Ribosomes in the Visual Cortex of Macaca mulatta. J. Cell Biol. 63: 1074-1089, 1974.

2. Research grants:

N.I.H. Grant #NS 11425
Development in Vitro of Normal and Mutant CNS
Co-Investigator with M. K. Wolf.

3. Professional activities:

Seminar: Scanning electron microscopic observations on developing tadpole nerve fibers. Section on cellular neuropathology, NINDS. April 4, 1975.

Invited lecture: Neuroembryology. Department of Biology, Harvard University. April 15, 1975.

PETER GRIGG, Ph.D.

Additions to Bibliography:

1. Grigg, P. Torque and angular dependance of discharge in joint afferent neurons in the cat. Society for Neuroscience, 4th annual meeting (abstract)

2. Baker, F.H., Grigg, P., and von Noorden, G.K. Effects of visual deprivation on neurons in striate and prestriate cortex in the monkey, including studies on normal animals. Brain Research, 66,, 185-208, 1974.

Professional activities:

How about:

Memberships in American Physiological Society
Society for Neuroscience
American Association for the Advancement of Science

Current Research Grants:

NS-10783 (NIH) Title: Segmental reflexes mediated by joint afferent neurons.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Ian D. K. Halkerston Date June 9, 1975

To Muriel Sawyer

Subject Annual Report Material

Please include the following material in the Dean's Annual Report to the President:

1. Additions to Bibliography
   Review: "Cyclic AMP and Adrenocortical Function"
   I.D.K. Halkerston in "Advances in Cyclic Nucleotide Research" Vol. 6 Eds. P. Greengard and G.A. Robison. 1975.
2. Cyclic AMP in Mammalian Epidermal Cells.
   General Research Support Grant NIH
3. Endocrine Society Meeting, New York, June 18-20, 1975.

Ian D K Halkerston

IDKH/gab

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Charles W. Hays, M.D. Date June 18, 1975

To Muriel Sawyer

Subject Annual Report Material 1974-75

BIBLIOGRAPHY ADDITIONS

"An Overview of the University of Massachusetts' Program in Community and Family Medicine", paper presented to the Association of Teachers of Preventive Medicine annual meeting in New Orleans, LA., October 1974.

"Medical Education in China in the Postcultural Revolution Era", New England Journal of Medicine, 1975, Vol 292, No.19, Wen, C.P., Hays, C.W.

RESEARCH GRANTS

None

PROFESSIONAL ACTIVITIES

Fellow, Massachusetts Medical Society
Fellow, American College of Preventive Medicine
Member, American Public Health Association
Member, Association of Teachers of Preventive Medicine
Member, Society for Medical Anthropology
Member, Association of American Medical Colleges
Member, Massachusetts Public Health Association
Vice President and Member of Board of Directors, Comprehensive Health Planning Council of Central Massachusetts
Chairman, Program Evaluation Committee, Comprehensive Health Planning Council of Central Massachusetts
Member, State-wide Committee on International Exchanges and Programs
Member, Advisory Board for the Health Services Assistant Course at Wachusett Regional High School
Member, Utilization Review Committee of Holden Nursing Home, Inc.
Member, Search Committee for Chairman of Pediatrics at St. Vincent's Hospital, Worcester, MA
Member, Society for International Development

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From John B. Herrmann, M.D. Date May 16, 1975

To Ms. Muriel Sawyer

Subject Annual Report Material

In accordance with your recent request, I am forwarding the information needed for inclusion in the Dean's Annual Report to the President.

1. Additions to bibliography

Herrmann, J.B., Open Wounds, in Ferguson's Surgery of the Ambulatory Patient, 5th ed., Chap. 5, pgs. 52-62. J.B. Lippincott Co., Philadelphia and Toronto, 1974.

Herrmann, J.B., Management of Infections, in Ferguson's Surgery of the Ambulatory Patient, 5th ed., Chap. 6, pgs. 63-70. J.B. Lippincott Co., Philadelphia and Toronto, 1974.

Herrmann, J.B.: Chapter in Clinical Applications of Zinc Metabolism, Chap. 16, pgs. 181-194. Charles C. Thomas, Springfield, Illinois, 1974.

2. Current Research Grants

Controlled Comparative Evaluation of Dexon (Polyglycolic acid suture - David and Geck) and Polypropylene sutures for the Closure of Long Mid-Line Abdominal Incisions Using the Smead Jones Technique	Davis and Geck Division American Cyanamid Co.
Comparative Evaluation of Disposable Treated Polyurethane Laparotomy Pads (Davis and Geck) and Disposable Gauze Laparotomy Pads	Davis and Geck Division American Cyanamid Co.
In Vivo Evaluation of Tensile Strength Retention and Knot Security of Dexon (Polyglycolic acid suture, Davis and Geck) and Chromic Catgut	Davis and Geck Division American Cyanamid Co.
Evaluation of Smooth Braid Dexon	Davis and Geck Division American Cyanamid Co.
Clinical Evaluation of XPA polyester suture	Ethicon, Inc.
Polypropylene Suture Study	Davis and Geck Division American Cyanamid Co.

3. Professional Activities

Session Chairman - Gordon Research Conferences on Biomaterials - June 16-20, 1975 - Santa Barbara, California

JBH/dcv

The Commonwealth of Massachusetts
University of Massachusetts
Worcester 01604

Medical School
Department of Medicine
419 Belmont Street

May 6, 1975

Roger B. Hickler, M.D.

Professor and Chairman, Department of Medicine

Activities - July 1, 1974 to June 30, 1975

Publications:

Hickler, R. B., Lauler, D. P., Gleason, R. E., and Christlieb, R.: Plasma Renin Activity and Cardiovascular Disease. Supplement of The Journal of Clinical Science and Molecular Medicine

Hickler, R. B.: The Role of Beta-Blocking Agents in Other Clinical States. The New England Cardiovascular Society (Proceedings of) XXVI, 1974

Pletka, P. and Hickler, R. B.: Renal Vein Renin (RVR) and Renal Vein Prostaglandins (PG) in Renal Hypertension. Proc. Am. Soc. Nephrology, Seventh Annual Meeting, Washington, D.C., p. 71, November, 1974

Whitman, G. A., Pletka, P., and Hickler, R. B.: Effect of Posture and Salt Intake on Plasma Prostaglandin (PG) Levels and Renin Activity (PRA). Proc. Am. Soc. Nephrology, Seventh Annual Meeting, Washington, D.C., p. 100, November, 1974

Professional Activities 1974-1975

1974 - Consultant to the Eighth Bethesda Conference on Cardiovascular Problems Associated with Aviation Safety

1975 - Steering Committee, Board of Governors, American College of Physicians

1975 - Board of Directors, Massachusetts Affiliate of American Heart Association

1975 - Member, International Society of Hypertension

1975 - Mid-Winter Meeting, Massachusetts Chapter Society of Internal Medicine, Program Director, University of Massachusetts Medical School

Roger B. Hickler, M.D.

May 6, 1975

Presentations at Scientific Meetings

Sept., 1974	The International Society of Hypertension, Milan, Italy Renin and Vascular Disease
Jan., 1975	Association of University Cardiologists, Phoenix, Ariz. Cardiovascular Disease and Hypertension
Feb., 1975	American College of Cardiology, Houston, Texas, Panelist on Treatment of Hypertension
Mar., 1975	Massachusetts College of Pharmacy and Massachusetts Heart Association, Boston, Massachusetts, Team Care of the Cardiac Patient
Mar., 1975	Guest Speaker at Hartford Hospital, Hartford, Connecticut, Renal Hypertension
Mar., 1975	California Heart Association, Tahoe, Nevada, Guest Speaker, Hypertension
Apr., 1975	American College of Physicians, Annual Meeting, San Francisco, California - Scientific Panel Moderator, Coronary Heart Disease
May, 1975	American Academy of Pediatrics, Massachusetts Chapter, Worcester, Mass., Speaker - Hypertension in Childhood
May, 1975	Massachusetts Medical Society, Annual Meeting, Boston, Mass. Speaker and Panelist, Risk Factors in Coronary Heart Disease

RBH:ro

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Lawrence Hightower, Ph.D. Date June 12, 1975

To Dean's Office

Subject Annual Report

1. Bibliography:

L. E. Hightower and M. A. Bratt. "Protein Metabolism during the Steady-State of NDV Infection. I. Kinetics of Amino acid and Protein Accumulation." J. Virol. 15, 696-706. 1975.

2. Current grants:

None

3. Professional Activities:

75th Annual Meeting of the American Society of Microbiology

Presented paper entitled: "Tryptic Peptide Analysis of the Polypeptides of Newcastle Disease Virus (NDV)."

CURRICULUM VITAE

KARL J. HITTELMAN

ADDRESS: Department of Biochemistry
University of Massachusetts Medical School
Worcester, MA 01605
(617) 856-2304

BORN: March 27, 1937, San Francisco, California

MARITAL STATUS: Married to Georgyn Melinkovich, May 27, 1969; no children

EDUCATION:

A.B.	Reed College	1958	Biology
M.S.	University of Oregon	1961	Biology
Ph.D.	University of California, Los Angeles	1967	Physiology

POST-DOCTORAL STUDIES:

Wenner-Grens Institut, University of Stockholm (NIH Post-Doctoral Fellow)	1967-1969
Zoology Department, University of Michigan (NIH Post-Doctoral Fellow)	1969-1970

POSITIONS HELD:

Assistant Professor of Biochemistry, University of Massachusetts Medical School	1970-1974

PRESENT POSITION:

Associate Professor of Biochemistry, University of Massachusetts Medical School	1974-

TEACHING EXPERIENCE:

Mammalian Physiology, Department of Physiology, UCLA Medical School	1962 and 1965
Animal Energetics, Department of Zoology, University of Michigan	1970
Medical Biochemistry, Department of Biochemistry, University of Massachusetts Medical School	1970-

PROFESSIONAL SOCIETIES: American Society for Cell Biology
Biophysical Society
American Association for the Advancement of Science

UNIVERSITY APPOINTMENTS:	Committee on the Future of the Worcester Campus of the University of Massachusetts; Co-Chairman, Subcommittee on Graduate Education and Laboratory Research	1971-197
	Chairman, Search Committee for a Dean of the Medical School and Chancellor of the University of Massachusetts at Worcester	1975-
MEDICAL SCHOOL APPOINTMENTS:	Library Committee	1970-
	Athletic Director (unofficial)	1970-
	Educational Policies Committee	1971-197
	Financial Aid Committee	1972-
	Search Committee, Director of Animal Care Facility	1973-197
	Search Committee, Chairman of Radiology	1973-197
	Search Committee, Chairman of Genetics	1973-

PUBLICATIONS:

Original Research Articles:

Smith, R.E., J.C. Roberts and K.J. Hittelman, "Nonphosphorylating respiration of mitochondria from brown adipose tissue of rats," Science, 154 (1966) 653.

Hittelman, K.J., A.S. Fairhurst and R.E. Smith, "Calcium accumulation as a parameter of energy metabolism in mitochondria of brown adipose tissue," Proc. Nat. Acad. Sci., U.S., 58 (1967) 697.

Hittelman, K.J., B. Cannon and O. Lindberg, "Oxidative phosphorylation and compartmentation of fatty acid activation in mitochondria from brown adipose tissue," in "Mitochondria - Structure and Function" (L. Ernster and Z. Drahota, eds), Fed. European Biochem. Soc. Symposium, 17 (1969) 183.

Hittelman, K.J., B. Cannon and O. Lindberg, "Oxidative phosphorylation and compartmentation of fatty acid metabolism in brown fat mitochondria," European J. Biochem., 11 (1969) 183.

Brooks, G.A., K.J. Hittelman, J.A. Faulkner and R.E. Beyer, "Temperature, skeletal muscle mitochondrial functions, and oxygen debt," Am. J. Physiol., 220 (1971) 1053.

Brooks, G.A., K.J. Hittelman, J.A. Faulkner and R.E. Beyer, "Temperature, liver mitochondrial respiratory functions, and oxygen debt," Medicine and Science in Sports, 3 (1971) 72.

Brooks, G.A., K.J. Hittelman, J.A. Faulkner and R.E. Beyer, "Tissue temperatures and whole animal oxygen consumption after exercise," Am. J. Physiol., 221 (1971) 427.

Butcher, R.W. and K.J. Hittelman, "Prostaglandins and the control of cyclic AMP levels in adipose tissue," in Endocrinology, R.W. Scow, Ed., American Elsevier, New York (1973) 382.

Hittelman, K.J., C.F. Wu, and R.W. Butcher, "Control of cyclic AMP levels in isolated fat cells from hamsters," Biochim. Biophys. Acta, 304 (1973) 188.

Hittelman, K.J. and R.W. Butcher, "Effects of antilipolytic agents and alpha-adrenergic antagonists on cyclic AMP metabolism in hamster white adipocytes," Biochim. Biophys. Acta, 316 (1973) 403.

Hittelman, K.J., R. Bertin, and R.W. Butcher, "Cyclic AMP metabolism in brown adipocytes of hamsters exposed to different temperatures," Biochim. Biophys. Acta, 338 (1974) 398.

Abstracts:

Brooks, G.A., K.J. Hittelman, J.A. Faulkner and R.E. Beyer, "Temperature, skeletal muscle mitochondrial functions, and oxygen debt," The Physiologist, 13 (1970) 156.

Butcher, R.W. and K.J. Hittelman, "Effects of alpha-adrenergic stimuli on cyclic AMP levels in hamster white adipocytes," Ninth International Congress of Biochemistry, Stockholm. Abstract 8Sh2 (1973) 347.

Book Chapters and Reviews:

Hittelman, K.J. and O. Lindberg, "Fatty acid uncoupling in brown fat mitochondria," in Brown Adipose Tissue, O. Lindberg, ed. Elsevier Publ. Co., Amsterdam (1970) 245.

Butcher, R.W., and K.J. Hittelman, "The metabolism of cyclic AMP and its role in cell function," in Biochemistry of the Acute Allergic Reactions, K.F. Austen and E.L. Becker, eds. Blackwell Sci. Publ., Oxford (1971) 141.

Hittelman, K.J. and R.W. Butcher, "Cyclic AMP and the mechanism of action of the prostaglandins," in The Prostaglandins, Pharmacological and Therapeutic Advances, M.F. Cuthbert, Editor, the Whitefriars Press Ltd., London (1973) 151.

Hittelman, K.J. and R.W. Butcher, "Basic biochemistry and control of production of cyclic AMP," in Effects of Drugs on Cellular Control Mechanisms, B.R. Rabin and R.B. Freedman, eds. Macmillan Press Ltd, London (1972) 153.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Allan Jacobson, Microbiology Date June 9, 1975

To Muriel Sawyer, Dean's Office

Subject Annual Report Material

I. Additions to Bibliography

1. Lodish, H.F., Jacobson, A., Firtel, R., Alton, T., and Tuchman, J. Synthesis of messenger RNA and chromosome structure in the cellular slime mold, Dictyostelium discoideum. Proc. Nat. Acad. Sci. U.S., 71:5103, 1974.
2. Jacobson, A., Firtel, R., and Lodish, H.F. The synthesis of messenger RNA in the cellular slime mold, Dictyostelium discoideum. Brookhaven Symposium on RNA Processing, Brookhaven National Labs, 1974.
3. Jacobson, A. Analysis of mRNA transcription in Dictyostelium discoideum or slime mold messenger RNA: How to find it and what to do with it once you've got it. In, Methods in Molecular Biology, Laskin and Last, eds., 1975.
4. Firtel, R., Jacobson, A., Tuchman, J., and Lodish, H.F. Gene activity during development of the cellular slime mold, Dictyostelium discoideum. Genetics, 78:355, 1974.
5. Jacobson, A., Lane, C.D., and Alton, T. Electrophoretic separation of the major species of slime mold messenger RNA. In, Microbiology, Dworkin and Shapiro, eds., 1975.

II. Current Research Grants

1. National Science Foundation. The Regulation of the Synthesis of Messenger RNA during Development of the Cellular Slime Mold, Dictyostelium discoideum.
2. American Cancer Society. The Regulation of the Synthesis of Messenger RNA during Development of the Cellular Slime Mold, Dictyostelium discoideum.

III. Professional Activities

American Society for Microbiology

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Muriel Sawyer Date April 29, 1975

To Medical School Faculty

Subject Annual Report Material

Once again, we need the information listed below for inclusion in The Dean's Annual Report to the President. If I may have this information by Friday, June 27, I will greatly appreciate it.

For the Period July 1, 1974 to June 30, 1975

1. Additions to bibliography
2. A list of your current research grants, including sponsor and title
3. Professional Activities (None)

Many thanks.

Muriel Sawyer

Administrative Assistant

MS:pb

1. Cell-to-Cell Herniae in the Vascular Wall

   I.Joris,J.M.Underwood,G.Majno

   American Journal of Pathology,78,21a, 1975

2. NIH Research Grant: HL 16952 - " Studies in Cardiovascular Pathology" (year 02) continuing grant.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Melvin H. Kaplan, M.D. Date 5/16/75

To Muriel Sawyer

Subject Annual Report

1. There have been no additions to my bibliography for the period July 1, 1974 to June 30, 1975.

2. The following research grant has been awarded to me for the period of January 1, 1975 to December 31, 1975 from the National Institutes of Health, USPHS Grant 7 RO1 HL 18221 01, entitled: "Immunologic Relation of Streptococcal Antigens and Heart."

3. Since my arrival in September, 1974, my outside academic and official activities have included:
Merit Review Board of the Veterans Administration Hospitals, Veterans administration, Washington, D.C.;
Invited lectures at Albert Einstein College of Medicine, New York; Tufts Medical School, Boston; and Annual Meeting, Massachusetts Medical Society, Boston.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Isao Katayama, M. D. Date June 23, 1975

To Dean's Office

Subject Annual Report Material

1. Bibliography

1. Katayama, I., Finkel, H. E.: Leukemic reticuloendotheliosis: A clinico-pathologic study with review of the literature. Am. J. Med. 57:115-126, 1974.

2. Katayama, I., Pechet, L.: Classification of non-Hodgkin's lymphomas. Lancet II:1211, 1974.

3. Katayama, I.: Lymphadenopathy. Human Pathol. 6:293, 1975.

4. Katayama, I., Schneider, G. B.: Cell-surface structure in hairy-cell leukemia. Lancet I:920-921, 1975.

5. Katayama, I., Valacer, D.: "Hairy" cells in chronic lymphocytic leukemia. Proc. Am. Ass. Cancer Res. 16:88, 1975.

6. Katayama, I., Pechet, L.: Hairy cells. Lancet I:976-977, 1975.

2. Research Grant

GRS RR 05712-04, #6-32804; $2,556.00

3. Professional Activities

A. Teaching: Lectured on malignant lymphoma.
Participated in several laboratory sessions.

B. Research: Studies on leukemias and lymphomas.
Read a paper (Bibliography #5 above) on May 9, 1975 at 66th meeting of American Association of Cancer Research at San Diego, CA.

C. Consultations: Functioned as consultant on cases of Hematopathology from Massachusetts and other states.

D. Administration: Helped Dr. Majno, Chairman of Department of Pathology, in planning for opening of the University Hospital. Regularly participated in the Organization Committee of Laboratory Medicine

Sincerely,

Isao Katayam, M. D.
Associate Professor of Pathology

IK/jmm

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Sally A. Savage Date June 12, 1975

To Dean's Office

Subject Additions to Bibliography of Robert B. Keller, M.D.

Please note the following additions to Dr. Keller's bibliography:

Professional Appointments:

1973 - Member, Board of Directors, Lowell Human Services Corporation

1974 - Assistant Director of Health Services, Services for Handicapped Children, Department of Public Health, Commonwealth of Massachusetts

1975 - Medical Advisory Committee, Community Nursing Association of Grafton, Inc., Grafton, Massachusetts

1975 - Associate Professor of Orthopedic Surgery, University of Massachusetts Medical School, Worcester, Massachusetts

Publications:

"Juvenile Aponeurotic Fibroma: Report of Three Cases and a Review of the Literature." Robert B. Keller, M.D., and Atilio Baez-Giangreco, M.D., Clinical Orthopedics and Related Research, 106: 198, 1975.

"Bone Lesions of the Spine in Children and Adolescents." Submitted for publication to Clinical Orthopedics and Related Research.

Papers Presented:

"Benign Bone Tumors of the Spine in Children." New England Orthopedic Society, Fall Meeting, 1974.

"Postural Screening in Adolescent and Pre-Adolescent Children." Massachusetts Academy of Family Practice, Annual Meeting, April, 1975.

CURRICULUM VITAE

Lewis A. Kelly

Born: March 30, 1943 in Butler, Pennsylvania

Married in 1966 - two children

Education:

Muskingum College, New Concord, Ohio
B. S. Degree 1961 - 1965

University of Pittsburgh, Pittsburgh, Pennsylvania
Ph.D. 1965 - 1970

Previous Positions:

Naval Air Development Center, Warminster, Pennsylvania 1969-1970

University of Massachusetts Medical School, Department of Biochemistry,
Research Associate 1970-1971

University of Massachusetts Medical School, Department of Biochemistry,
Research Instructor 1971-1973

University of Massachusetts Medical School, Department of Biochemistry,
Instructor 1973-

Special Course Work:

Vertebrate and Invertebrate Cell Culture. June 19 - July 14, 1972
W. Alton Jones Cell Science Center, Tissue Culture Association

Society Membership:

Tissue Culture Association

Publications:

L. A. Kelly and S. B. Koritz. Bovine adrenal cortical adenyl cyclase and its stimulation by adrenocorticotropic hormone and NaF. Biochim. et Biophys. Acta 237:141-155 (1971).

L. A. Kelly and R. W. Butcher. The effects of Δ^1-tetrahydrocannabinol on cyclic AMP levels in WI-38 fibroblasts. Biochim. et Biophys. Acta 320:540-544 (1973).

L. A. Kelly and R. W. Butcher. The effects of epinephrine and prostaglandin E_1 on cyclic adenosine-3', 5'-monophosphate levels in WI-38 fibroblasts. J. Biol. Chem. 249 (1974) 2098-3102.

L. A. Kelly, M. S. Hall and R. W. Butcher. Cyclic adenosine-3', 5'-monophosphate metabolism in normal and SV40-transformed WI-38 cells. J. Biol. Chem. 249 (1974) 5182-5187.

L. A. Kelly and R. W. Butcher. Studies on Cyclic AMP Metabolism in Human Epidermoid Carcinoma (HEp-2) cells. Metabolism 24 359-368, (1975).

L. A. Kelly and R. W. Butcher. Release of cyclic AMP to the incubation medium by cultured normal and SV40-transformed WI-38 fibroblasts. In preparation.

L. A. Kelly and R. W. Butcher. Effects of serum on cyclic AMP metabolism in cultured fibroblasts. In preparation.

L. A. Kelly and R. W. Butcher. Catecholamines as Effectors of cyclic AMP metabolism in cultured fibroblasts. In preparation.

Chlapowski, F. J., Kelly, L. A., and Butcher, R. W. Cyclic Nucleotide in cultured cell systems: A Review. Advances in Cyclic Nucleotide Research Volume 6 (1975) (in press).

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Leslie Lipworth Date June 18, 1975

To Muriel Sawyer

Subject Annual Report Material 1974-75

BIBLIOGRAPHY ADDITIONS

A High Risk City
L. Lipworth, Mittler, Vacirca S., Weinstein P.
Submitted to the New England Journal of Medicine by Mass Health Dept.

Impact of Rural Health Center on Hospital Utilization
Deering G.E., Collier C.H., Penn J.R., Lipworth L.

Reported at - First Miami International Conference (Progress and Prospects in Health Care Distribution Systems) Nov. 74.

North American Primary Care Group Meeting, New Orleans, April 75.

Submitted for publication to the Journal of Family Practice

RESEARCH GRANTS

Sponsor	Title
Tri-State Regional Medical Program	Cooperative Family Health Care Data System
Central Mass Lung Association	Computerized Educational Program in Lung Disease

PROFESSIONAL ACTIVITIES

Uterine Cancer Task Force (American Cancer Society)
Advisory Committee For Cervical Screening Project (Mass Dept. of Public Health)
American Heart Association, Central Mass Chapter - Board of Directors
Massachusetts Health Planning Data Committee - State Office of Comprehensive Health Planning
Advisory Committee on Data Book - Mass Dept. of Public Health
Committee of the University (UMass) as a Commonwealth Resource (member)
Fellow of the American Public Health Association
Fellow of the American College of Preventive Medicine
Massachusetts Public Health Association
Regional Water Quality Resources Study Group, Worcester Consortium

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Muriel Sawyer Date April 29, 1975

To Medical School Faculty

Subject Annual Report Material

Once again, we need the information listed below for inclusion in The Dean's Annual Report to the President. If I may have this information by Friday, June 27, I will greatly appreciate it.

For the Period July 1, 1974 to June 30, 1975

1. Additions to bibliography
2. A list of your current research grants, including sponsor and title
3. Professional Activities (None)

Many thanks.

Muriel Sawyer

Administrative Assistant

MS:pb

1. The Healing Hand. Man and Wound in the Ancient World. Harvard University Press, Cambridge, Mass, 1975.
2. NIH Research Grant: HL 16952 - "Studies in Cardiovascular Pathology" (Year 02) continuing grant.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Sandy C. Marks, Jr. Date May 20, 1975

To Muriel Sawyer

Subject Information requested for Dean's Annual Report

1. Additions to Bibliography

Sandy C. Marks, Jr. A discrepancy between measurements of bone resorption in vivo and in vitro in newborn osteopetrotic rats. Am. J. Anat. 141: 329-340, 1974.

Sandy C. Marks, Jr. and Donald G. Walker. Mammalian Osteopetrosis: a model for studying cellular and humoral factors in bone resorption. To be published in Volume 4 of The Biochemistry and Physiology of Bone, G. Bourne, editor, Academic Press, New York, 1975.

2. Current Research Grant

N.I.H. (National Institute of Dental Research) #DE 03818, entitled "The role of the osteoclast in tooth eruption". (November 1, 1973 to October 31, 1976).

3. Professional activities

Attended the 53rd Annual Meeting of the International Association for Dental Research at The Imperial College of Science, London, England, April 9-12, 1975 and presented a paper entitled "The osteopetrotic (ia) rat as a model for studying relationships between bone resorption and tooth eruption."

Visited the laboratory of Dr. Ulf Lucht, Institute of Anatomy, University of Aarhus, Denmark, April 16-18, 1975 and presented a seminar entitled "Mammalian osteopetrosis as a model for studying bone resorption".

Scmk.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Martin Marinus Date May 6, 1975

To Muriel Sawyer

Subject Annual Report Material

1. Additions to bibliography

Marinus, M.G. and Morris, N.R. (1974) Biological function for 6-methyladenine residues in the DNA of Escherichia coli K12. Journal of Molecular Biology 85: 309-322.

Marinus, M.G. and Morris, N.R. (1975) Pleiotropic effects of a DNA adenine methylation mutation (dam-3) in Escherichia coli K12. Mutation Research 28: 15-26.

Marinus, M.G., Morris, N.R., Soll, D. and Kwong, T.C. (1975) Isolation and partial characterization of three Escherichia coli mutants with altered transfer ribonucleic acid methylases. Journal of Bacteriology 122: 257-265.

2. Current Research Grants

U.S. Public Health Service Grants

a) General Research Support Grant GRS RR05712-03
"The Role of DNA Synthesis in DNA Recombination"

b) Research Grant GM22055
"Function of Methylated Bases in Nucleic Acids"

3. Professional Activities

Member, American Society for Microbiology

Lectured on antibiotic and chemotherapeutic agents in medical pharmacology course

Edward Mason, M.D.

Professor and Acting Chairman
Department of Psychiatry

1. Additions to Bibliography

Presentation of paper at Annual Tufts University Medical Alumni meeting, Newport, Rhode Island, April 18, 1975.
"The Physician as Sex Counselor--Whoever said so?"
Also to be published in the Tufts Medical Alumni Bulletin, June, 1975.

2. Professional Activities

Chief of Psychiatry, St. Vincent Hospital
January 28, 1975

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Thomas B. Miller, Jr., Ph.D., Biochem. Date May 12, 1975

To Muriel Sawyer

Subject ANNUAL REPORT MATERIAL

1. Additions to Bibliography

   Exton, J.H., Miller, T.B., Jr., Harper, S.C., and Park, C.R., Effects of Adrenalectomy and Steroid Replacement on Gluconeogenesis and Glycogen Metabolism in Perfused Livers From Fasted Rats (in press, Amer. J. Physiol.)

   Miller, T.B., Jr., and Butcher, R.W., Protein Kinase Activity in Normal and SV40-Transformed WI-38 Cells (in press, J. Cyclic Nucleotide Res.).

2. NIH Research Grant - 1-1-75 through 12-31-77.
   Title - Regulation of Hepatic Glycogen Synthesis
   Funded through - Diabetes Program
   NIHAMDD

3. Additional Professional Membership
   American Physiological Society

Thomas B. Miller, Jr., Ph.D.
Assistant Professor of Biochemistry

TBM/gab

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Tracy B. Miller, Ph.D. Date June 27, 1975

To Muriel Sawyer

Subject Annual Report Material

1. Additions to bibliography

Miller, Tracy B. and Ross, Charles R.: Transport of Organic Cations and Anions by Choroid Plexus. Accepted by J. Pharmacol. and Exper. Therap.

2. Current Research Grants

A. G.R.S. #RR05712-04, 632802

1) Renal papillectomy in the rat; a model for the study of chronic hematuria, erythropoiesis, and urinary factors which inhibit wound healing.

2) The transber of tolerance to morphine.

B. A study of the effects of carbonic anhydrase inhibitors in salicylate poisoning is supported by funds from the Worcester City Hospital Research Institute. A small study of "Poke-Weed" toxicity was also supported from these funds.

3. Professional activities

A. Editorial consultant for the J. Pharmacol. and Experimental Therapeutics.

B. Served on the planning committee for the annual graduate student convocation for the American Society of Pharmacology and Experimental Therapeutics fall meetings.

C. Served as teaching film reviewer for ASPET.

D. Served as University of Massachusetts Medical School representative to the planning committee of the New England Pharmacologists.

E. School committees: Psychiatry Search Committee, Audiovisual Committee, Animal Care Committee

F. Central Massachusetts Chapter, American Heart Association: Member of the Executive Committee, Chairman of the Research Committee, Vice Chairman of the Board of Directors

4. Community Activities

Served as Vice President: Worcester Community School for the Performing Arts.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Trudy Morrison, Microbiology Date May 7, 1975

To Muriel Sawyer

Subject Annual Report Material

1. Additions to Bibliography

Morrison, T., Stampfer, M., Lodish, H., and Baltimore, D. In vitro translation of vesicular stomatitis virus messenger RNA and the existence of a 40S "plus" strand. Negative Strand Virus Meeting, Cambridge, England, July, 1973, in press.

Morrison, T., Stampfer, M., Baltimore, D., and Lodish, H. Translation of vesicular stomatitis virus messenger RNA by extracts from mammalian and plant cells. J. Virol., 13:62-72, 1974.

Morrison, T., Blumberg, D., and Malamy, M. T7 protein synthesis in F' episome-containing cells: Evidence for three translational groups. J. Virol., 13:386-393, 1974.

Morrison, T. and Lodish, H. Recognition of protein synthesis initiation signal on bacteriophage RNA by mammalian ribosomes. J. Biol. Chem., in press.

Morrison, T. and Lodish, H. Site of synthesis of membrane and nonmembrane proteins of vesicular stomatitis virus. J. Biol. Chem., in press.

2. Current Research Grants

Synthesis and Translation of Viral RNA. American Cancer Society. $69,443 for 2 years.

(Awarded grant for same proposal from NIH, which I turned down)

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Donald Morton Date June 9, 1975

To Dean's Office

Subject Annual Report Material

As you requested in your memonrandum dated April 29, 1975 to have by June 27, 1975, here is a list of items for inclusion in the Dean's Annual Report to the President:

1. Additions to bibliography.

   a. Morton, Donald J., "Applying Theory Y to Library Management." College and Research Libraries. Accepted for publication in the July, 1975 issue.

2. List of current research grants.

   None.

3. Professional Activities.

   a. Elected Vice-President/President-Elect of the Simmons College Library School Alumni Association.

   b. Served as Chairman of the Worcester Area Cooperating Libraries.

   c. Elected Chairman of the New England Regional Group of the Medical Library Association.

   d. Gave invited talk entitled "Information Retrieval Systems" at the national meeting of the Medical Library Association on June 4, 1975.

   e. Gave invited talk entitled "Interactive Bibliographic Systems" for the Helen Maginnis Education Seminar given by the Special Libraries Association, Boston Chapter on January 11, 1975.

   f. Serve on the Advisory Committee for Medical Librarianship Committee at Simmons College.

   g. Serve on the Cooperating Staff of the Worcester Foundation for Experimental Biology.

   h. Serve on the University of Massachusetts Bicentennial Committee.

   i. Serve on the Task Force of the New England Medical Library Service.

   j. Presented a course entitled "Medical Librarianship" at Worcester State College.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Michael J. Mulroy, Anatomy Dept. Date May 9, 1975

To Muriel Sawyer, Administrative Assistant

Subject Annual Report Material

Chancellor and
Dean's Office

1. Additions to bibliography

Mulroy, Michael J. 1974 Cochlear Anatomy of the Alligator Lizard Brain Behav.Evol. 10: 69-87.

Weiss, Thomas F., Mulroy, Michael J. and Altmann, David W. 1974 Intracellular responses to acoustic clicks in the inner ear of the alligator lizard. J.Acoust.Soc.Am., 55: 606-619.

Mulroy, M.J., Altmann, D.W., Weiss, T.F. and Peake, W.T. 1974 Intracellular electric responses to sound in a vertebrate cochlea. Nature 249:5456, 482-485.

2. Current research grants

N.I.H. "Intracellular Responses in Lizard Auditory Papilla."

General Research Support Grant, "Pattern of Innervation in the Cochlea of the Alligator Lizard."

CURRICULUM VITAE

Name: NEMECEK, Georgina Marie

Social Security Number: 093-38-3223

Marital Status: Single

Dependents: None

Birth Date: August 27, 1946

Birthplace: Mineola, New York, U.S.A.

Country of Citizenship: United States of America

Present Mailing Address: Department of Biochemistry
University of Massachusetts
Medical School
Worcester, Massachusetts 01605

Telephone: 617/856-2315 or 617/856-2251

Permanent Mailing Address: 104 Shrine Avenue
West Boylston, MA 01583

Telephone: 617/835-3663

Education subsequent to secondary school:

College or University	Location	Major Field of Study	Dates of Attendance	Degree and Date Received
Mount Holyoke College	South Hadley, Massachusetts 01075	Chemistry	September, 1964 - June, 1968	A.B., June, 1968
University of Pennsylvania	Philadelphia, Pennsylvania 19174	Pharmacology	September, 1968 - August, 1972	Ph.D., August, 1972

Employment:

Name of Employer	Address	Position	Dates of Employment
Department of Chemistry, Mount Holyoke College	South Hadley, MA 01075	Laboratory Teaching Assistant	September, 1967 - June, 1968
Dr. Kenneth L. Williamson, Professor	Mount Holyoke College, South Hadley, MA 01075	Research Assistant	June - August, 1968
Dr. R.W. Butcher, Professor and Chairman	Dept. Biochem. U. Mass. Med. Sch. Worcester, MA 01605	Faculty Research Associate	September, 1972-December, 1974
Department of Biochemistry	U. Mass. Med. Sch., Worcester MA 01605	Assistant Professor	December, 1974 - present

Academic honors, scholarships, fellowships, and membership in professional societies:

Associate member, Sigma Xi.

A.B. degree awarded with honors in chemistry.

Philadelphia Physiological Society, 1969-1972.

National Institutes of Health predoctoral trainee, September, 1968 - 1972

Recipient of a fellowship administered by the American Society for Pharmacology and Experimental Therapeutics for the study of cardiovascular pharmacology under the direction of Drs. Brian F. Hoffman and S. C. Wang, Department of Pharmacology, College of Physicians and Surgeons, Columbia University, New York, New York (July, 1970).

American Heart Association, 1973 -

Postdoctoral fellowship, Massachusetts Heart Association, January-December, 1974 "Cyclic AMP Levels in Capillary Endothelium"

Thesis and Publications:

Nemecek, G.M., Brus, R., and Hess, M.E.: Cardioavascular and metabolic responses to thyroxine in rats sympathectomized with 6-hydroxydopamine. Fed. Proc. 29:477 (1970) [Abstract]

Nemecek, G.M. and Hess, M.E.: Cardiovascular and metabolic responses in rats treated simultaneously with thyroxine and 6-hydroxydopamine. Fed. Proc. 31:522 (1972) [Abstract]

Nemecek, G.M. and Hess, M.E.: The role of the sympathetic nervous system in influencing the cardiovascular and metabolic responses to thyroid hormones. Int. Congress on Pharmacology, 5th, 166 (1972) [Abstract]

Nemecek, G.M.: The role of the sympathetic nervous system in influencing the cardiovascular and metabolic responses to thyroid hormones. Thesis, University of Pennsylvania, 1972.

Nemecek, G.M. and Hess, M.E.: Cardiovascular and metabolic responses to thyroid hormones in animals after sympathectomy or treatment with nerve growth factor. Neuropharmacology, 13, 317-332 (1974).

Nemecek, G.M., Hittelman, K.J., and Butcher, R.W.: α-Adrenergic stimulation of adenosine 3',5'-monophosphate phosphodiesterase activity in isolated fat cells. In preparation.

CURRICULUM VITAE

ARTHUR M. PAPPAS, M.D.

Home address: 120 Robin Road, Weston, Massachusetts 02193
Office address: University of Massachusetts Medical School
55 Lake Avenue North
Worcester, Massachusetts 01605

Date of Birth: July 3, 1931
Place of Birth: Auburn, Massachusetts

Education:

1953	A.B., Harvard College
1957	M.D., University of Rochester School of Medicine

Military Service:

1958-1960	U.S. Navy, Research Officer, Naval Medical School, Bethesda, Maryland

Professional Training:

1957-58	Surgical Intern Albany Medical Center
July, 1960- March, 1961	Assistant Resident in Orthopedic Laboratory Children's Hospital Medical Center
1961-62	Assistant Resident in Orthopedic Surgery Children's Hospital Medical Center
1962-63	Assistant Resident in Orthopedic Surgery Massachusetts General Hospital
April-June, 1962	Resident in Orthopedic Surgery Children's Hospital Medical Center
October, 1963- March, 1964	Resident in Orthopedic Surgery Peter Bent Brigham Hospital
April-June, 1964	Chief Resident in Orthopedic Surgery Veterans Administration Hospital West Roxbury, Massachusetts
1967	Certified by American Board of Orthopaedic Surgery

Professional Appointments:

January-June, 1964	Teaching Fellow in Orthopedic Surgery Harvard Medical School
1964-67	Instructor in Orthopedic Surgery Harvard Medical School
1964-65	Assistant in Orthopedic Surgery and Research Associate in Orthopedic Surgery Children's Hospital Medical Center
1964-65	Assistant in Orthopedic Surgery Peter Bent Brigham Hospital
1965-67	Junior Associate in Orthopedic Surgery Children's Hospital Medical Center
1965-67	Junior Associate in Orthopedic Surgery Peter Bent Brigham Hospital
1967-December, 1968	Clinical Associate in Orthopedic Surgery Harvard Medical School
1967-	Associate in Orthopedic Surgery Children's Hospital Medical Center
1967-72	Associate in Orthopedic Surgery Peter Bent Brigham Hospital
1965-72	Assistant Surgeon Harvard University Health Services
1964-72	Consultant in Orthopedic Surgery West Roxbury Veterans Administration Hospital
1966-71	Lecturer in Anatomy Simmons College
July, 1968-1971	Acting Orthopedic Surgeon-in-Chief Children's Hospital Medical Center
1968-72	Medical Director, School of Physical Therapy Simmons College
January, 1969-December, 1972	Assistant Professor of Orthopedic Surgery Harvard Medical School
August, 1968-	Senior Consultant in Orthopedic Surgery Lemuel Shattuck Hospital

Professional Appointments (continued):

1970-	Director of Health Services for Handicapped Children Department of Public Health Commonwealth of Massachusetts
December, 1970	Trustee, Massachusetts Hospital School Canton, Massachusetts
1970	Fellow of American College of Surgeons
September, 1971	Senior Associate in Orthopedic Surgery Children's Hospital Medical Center
1972-74	Director of Medical Care Department of Mental Health Commonwealth of Massachusetts
1972	Acting Director, Division of Family Health Services Department of Public Health Commonwealth of Massachusetts
1972	Professor of Orthopedic Surgery and Chairman of Department of Orthopedic Surgery University of Massachusetts Medical School
1975	Secretary, Orthopedic Section, Massachusetts Medical Society.

Professional Society Memberships:

New York Academy of Sciences

Orthopaedic Research Society

Society for Cryobiology

American Medical Association

Massachusetts Medical Society

New England Orthopedic Society

American Academy of Orthopaedic Surgeons

American College of Surgeons

American Academy for Cerebral Palsy

American College Health Association

Boston Surgical Society

Association for Academic Surgery

Professional Society Memberships (continued):

Pediatric Orthopedic Society

Boston Orthopedic Club

American Academy of Pediatrics

Association of Bone and Joint Surgeons

Committees:

1966-71 Governor's Medical Advisory Committee, Ninth [illegible]
Subcommittee on Health Care Standards (Co-Chairman)

1967- Medical Advisory Committee, Massachusetts Chapter
National Foundation of March of Dimes

1967-71 Medical Advisory Council of the Massachusetts Chapter of the
American Physical Therapy Association

1965-72 Research Building Committee
Children's Hospital Medical Center

1965-72 Animal Committee (Chairman)
Children's Hospital Medical Center

1968-72 Clinical Council
Harvard Medical School

1969-72 Planning Committee
Children's Hospital Medical Center

1969-71 Advisor to the Richards Fellowship Committee

1971- Advisory Council for the Handicapped Children's Preschool

1972- Medical Advisory Board of the New England Hemophilia Association

1972- Board of Medical Advisors, Industrial School for Crippled Children

1972- Easter Seal Society
Committee to Assist in the Education of the Handicapped

1967-72 Space Committee (Chairman)
Children's Hospital Medical Center

1972- Executive Committee
University of Massachusetts Medical School

Committees (continued):

1972-74 Advisory Council on Planning, Construction, Operation or Utilization of Facilities for the Mentally Retarded
Department of Mental Health
Commonwealth of Massachusetts

1973- Board of Directors, Child Advocacy
Easter Seal Society for Crippled Children and Adults of Massachusetts, Inc.

1974- Medical Advisory Board
Dysautonomia Foundation

1974- American Board of Orthopedic Surgery
Residency Program Review Committee

1974- American Board of Orthopedic Surgery
Candidate Examiner

BIBLIOGRAPHY

1. Pappas, A. M., and Hyatt, G. S.: The evaluation of collagen film applied to skin defects in mice. Surgical Forum, X:844-846, 1960.

2. Pappas, A. M., Perry, V. P., Wheeler, T. E., and Hyatt, G. W.: Bone Marrow storage: Current concepts. Military Medicine, pp. 347-354, 1961.

3. Pappas, A. M., Evans, V. J., Hyatt, G. W., and Earle, W. R.: Acceleration of skin defect closure. Surg., Gyn., and Obst., 113:681-686, 1961.

4. Pappas, A. M., and Cohen, J.: The abscopal effect of x-irradiation on bone growth in rats. J. Bone and Joint Surg., 45A:768-772, 1963.

5. Pappas, A. M., Barr, J. S., Saltzman, E. W., Britten, A., and Risebrough, E. J.: The problem of unrecognized "mild hemophilia". J.A.M.A., 187:772-774, 1964.

6. Pappas, A. M., and Cohen, J.: In vitro toxicity assay of metals. J. Bone and Joint Surg., 47A:1101-2, 1965 (Abstract).

7. Pappas, A. M.: Current methods of bone storage by freezing and freeze drying. Cryobiology, 2:303, 1966. (Abstract)

8. Pappas, A. M.: Osteochondroses. Ped. Clinics of North America, 14:549-570, 1967.

9. Pappas, A. M., and Cohen, J.: Toxicity of metal particles in tissue culture. Part I: A new assay method using cell counts in the phase of replication. J. Bone and Joint Surg., 50A:535-547, April, 1968.

10. Filler, R. M., Griscom, N. T., and Pappas, A. M.: Post-traumatic crepitation falsely suggesting gas gangrene. New England J. Med., 278:758-761, 1968.

11. Perry, V. P., Pappas, A. M., Wheeler, T. E., and Brodine, C.: Nutrient media storage of human bone marrow. Cryobiology, 4:204-208, 1968.

12. Pappas, A. M., and Radin, E. L.: The effect of delayed manipulation upon the rate of fracture healing in rats. Surg., Gyn., and Obst., 126:1287-1297, June, 1968.

13. Pappas, A. M.: Current methods of bone storage by freezing and freeze drying. Cryobiology, 4:358-375, 1968.

14. Pappas, A. M.: Experimental malformations of the motor skeletal system. Clin. Orthop. and Related Research, 59:249-276, July-August, 1968.

15. Lewis, A., and Pappas, A. M.: Experimental Fat Embolism: (Evaluation of [illegible]). J. Trauma, [illegible], 1969.

Bibliography (continued)

16. Pappas, A. M., and Beisaw, M. E.: Bone transplantation: correlation of physical and histological aspects of graft incorporation. Clin. Orthop. and Related Research, 61:79-91, November-December, 1968.

17. Goldberg, M. J., and Pappas, A. M.: Experimental production of anomalies using fetal skeletal antisera. Surg. Forum, 19:469-470, 1968.

18. Pappas, A. M., Miller, M. E., Anderson, M. A., and Green, W. T.: The relationship between relative maturity, growth, and urinary hydroxyproline. Clin. Orthop. and Related Research, 74:241-248. January, 1971.

19. Eraklis, A. F., Filler, R. M., Pappas, A. M., and Bernhard, W. F.: Evaluation of hyperbaric oxygen as an adjunct in the treatment of anaerobic infections. Am. J. Surg., 117:485-492, 1969.

20. Filler, R. M., Thorne, N., and Pappas, A. M.: Crepitation simulating gas gangrene. Mod. Medicine, 91-92, October 7, 1968.

21. Pappas, A. M., and Radin, E. L.: The effect of delayed manipulation upon the rate of fracture healing in rats. Mod. Medicine, 80-81, January, 1969.

22. Ream, J. R., Weingarten, P. L., and Pappas, A. M.: Evaluation of the prenatal effects of massive doses of insulin in rats. Teratology, V. 3, No. 1., February, 1970.

23. Weingarten, P. L., Ream, J. R., and Pappas, A. M.: Teratogenicity of mylotan against musculoskeletal tissues in the rat. Clinical Orthopedics, No. 75, 236-247, March-April, 1971.

24. Bernstein, P., Kanter, J., and Pappas, A. M.: Tibial bone grafts in the rat: the effects of prior host sensitization, prednisolone, and azathioprine on graft incorporation. Surg. Forum, XX:467-469, 1969.

25. Pappas, A. M., Filler, R. M., Eraklis, A. J., and Bernhard, W. F.: Clostridial infections (gas gangrene): Diagnosis and Treatment. Clin. Orthop. and Related Research, 76:117-184, May, 1971.

26. Love, H., Simmons, B., Pappas, A. M., and Folkman, J.: Perfusion of the isolated rat limb. Surgical Forum, XXI:469-470, 1970.

27. Pappas, A. M., and Cohen, J. R.: Toxicity of metal particles in tissue culture. Yearbook of Orthopedics and traumatic surgery. 359-361, 1969.

28. Pappas, A. M.: Avascular diseases of bone: The osteochondroses. Brennemann's Practice of Pediatrics, IV: Chapter 34, 1972.

29. Pappas, A. M.: Etiology of Congenital Malformations. Orthopedic Sound Slide. American Academy of Orthopedic Surgeons.

Bibliography (continued)

30. Pappas, A. M., Hanawalt, B. J., and Anderson, M.: Congenital defects of the fibula. Orthopedic clinics of North America, 3:1:137-199, March, 1972.

31. Keller, R. B., and Pappas, A. M.: The treatment of sepsis following instrumentation for scoliosis. Orthopedic Clinics of North America, 3:1:99-111, March, 1972.

32. Rosenthal, A., Anderson, M., Fyler, D., Thomson, S., and Pappas, A.: Superficial femoral artery catheterization, effect on extremity length. Amer. J. Dis. Child., 124, August, 1972.

33. Pappas, A. M.: Your Physician, The Orthopedic Surgeon. The Exceptional Parent, 2: Part 1, No. 1, June-July, 1972.

34. Pappas, A. M.: Your Physician, The Orthopedic Surgeon. The Exceptional Parent, 2: Part 2, No. 2, August-September, 1972.

35. Pappas, A. M.: Congenital Hip Dysplasia. Edward R. Trueta, M.D. Surgery of the Hip Joint, pp. 173-210, Pennsylvania, 1973.

36. Pappas, A. M.: Gas Gangrene. Contemporary Surgery. To be published 1973.

37. Pappas, A. M., and Akins, C.: The Child's Hip. Saunders, Philadelphia. In progress, accepted for publication.

PAPERS PRESENTED

1. The evaluation of Collagen Film applied to skin defects in Mice. Surgical Forum (Orthopedics), 1959.

2. Orthopedic Care of Hemophilia. Boston Orthopedic Club, January, 1960.

3. In Vitro toxicity assay of metals. Orthopaedic Research Society, New York, January, 1965.

4. Discussion of the Fracture of the Month. Published in J.A.M.A., September, 1965.

5. Fractures, dislocations, and sprains. Boston Medical Reports, February, 1966.

6. Preservation of Bone Grafts by Freezing and Drying. Society for Cryobiology Conference, August, 1966.

7. Discussion of Fracture of the Month. Published in J. A. M. A., November, 1966.

8. Hip Problems in Infancy and Childhood. Lawrence General Hospital, Lawrence, Massachusetts, February, 1968.

9. Embryological Basis of Skeletal Congenital Malformations. Visiting Professor Series, Hamot Hospital, March, 1968.

10. Discussion of Tissue Culture Bio Assay of Surgical Implant Materials. National Academy of Sciences, May, 1968.

11. Goldberg, M. J. and Pappas, A. M.: Experimental Production of Anomalies Using Fetal Skeletal Antisera. American College of Surgeons, October, 1969.

12. Discussion of Fracture of the Month, Gas Gangrene. Grand Rounds, Massachusetts General Hospital, March 5, 1969.

13. Discussion of Skeletal Malformations and Congenital Anomalies. American Physical Therapy Association, April 1, 1969.

14. Fractures of the Hip in Children. Hip Symposium, American Academy of Orthopedic Surgeons, April 18, 1969.

15. The Development of Skeletal Malformations. Children's Hospital Medical Center Centennial, Boston, Massachusetts, April, 1969.

16. Athletics and Adolescence. 55th Annual Clinical Congress of the American College of Surgeons.

17. Tibial bone grafts in the rat: The Effects of Prior Host Sensitization, Prednisolone, and Azathioprine on Graft Incorporation. American College of Surgeons, San Francisco, California, October, 1969.

18. [illegible] Dimension of Physical Therapy: The Physical Therapy Assistant. New England Medical Assembly, March 24, 1970.

Papers Presented (continued):

19. Visiting Professor Series. Hamot Hospital, Erie, Pennsylvania, April, 1970.

20. Congenital Abnormalities of the Femur. New England Orthopedic Society, Newington, Connecticut, May, 1970.

21. The State and Delivery of Health Care. Health Care Management Association of Massachusetts, Carney Hospital, September 30, 1970.

22. Low Friction Total Hip Arthroplasty. American College of Surgeons, Color Television Program, October, 1970.

23. Treatment of Gas Gangrene in Skeletal Problems. American Academy of Orthopaedic Surgeons Program on "The Care of the Critically Ill Orthopedic Patient", October 23, 1970.

24. Congenital Hip Dysplasia. Cleveland Clinic, Education Foundation, January 20, 1971.

25. The Adolescent Athlete. Cleveland Clinic, Education Foundation, January 21, 1971.

26. Congenital Dislocation of the Hip. Guest Consultant at Western Massachusetts "Day in Orthopedics", Pittsfield General Hospital, Pittsfield, Massachusetts, May 1, 1971.

27. The Diagnosis and Treatment of Clostridial Infections. New England Orthopedic Society, May 28, 1971.

28. Athletic Injuries in Adolescence. 50th Anniversary Conference of the American Physical Therapy Association, Boston, Massachusetts, June 30, 1971.

29. Two lectures: Congenital Hip Dysplasia and Deformities of the Hip Associated with Poliomyelitis. Society Latin American Orthopedics and Traumatology, Chairman of Symposium, Quito, Ecuador, July 3-10, 1971.

30. Epiphyseal Fractures and Their Treatment. American Academy of Orthopedic Surgery, Fracture Course, November 15, 1971.

31. Treatment of Dislocated Hips in Older Children. New England Orthopedic Society, May 26, 1972.

32. Congenital Malformations of the Musculo-Skeletal System, Hip Problems in Infancy and Childhood, and Knee and Foot Problems in Infancy and Childhood. Maine Orthopedic Seminars, Greenville, Maine, July 11-21, 1972.

33. Belchertown State School - A Case Example. The Massachusetts Public Health Association, Inc., Meeting, October 19, 1972.

Papers Presented (continued):

34. The Osteochondroses. American Academy of Orthopedic Surgeons, Instructional Series, New York City, New York, October, 1973.

35. Malformation of the Femur. Pediatric Orthopedic Society, Sturbridge, Massachusetts, November, 1973.

36. Klippel-Feil Syndrome. American Academy of Orthopedic Surgeons, Annual Meeting, Dallas, Texas, January, 1974.

37. Ball and Socket Ankle. American Academy of Orthopedic Surgeons, Annual Meeting, Dallas, Texas, January, 1974.

38. Congenital Hip Dysplasia. International College of Surgeons, Lima, Peru, March, 1974.

39. Complications of Surgery for Flat Feet. American Academy of Orthopedic Surgeons, Instructional Course, Boston, Massachusetts, May, 1974.

40. Complications of Lower Extremity Injuries. American Academy of Orthopedic Surgeons, Instructional Course, Kansas City, Kansas, September, 1974.

41. Discussion: Hand Injuries. American College of Surgeons, Miami Beach, Florida, October, 1974.

42. Congenital Abnormalities of the Femur. Pediatric Orthopedic Society, Absecon, New Jersey, November, 1974.

43. Coxa Vara. Pediatric Orthopedic Society, Absecon, New Jersey, November, 1974.

44. Gas Gangrene. Cape Cod Hospital Guest Lecture Series, Hyannis, Massachusetts, December, 1974.

45. Analysis of Deformities Following Epiphyseal Injury. Massachusetts General Hospital, Boston, Massachusetts, February, 1975.

46. Posterior and Medial Bowing. Association of Bone and Joint Surgeons, Caracas, Venezuela, April, 1975.

47. Sports Medicine and the Young Athlete. Massachusetts Academy of Family Physicians, Boston, Massachusetts, April 1975.

48. Complications Following Epiphyseal Injuries. American College of Surgeons, Chicago, Illinois, May, 1975.

49. Disturbances of the Shaft of the Long Bone in Child Following Fracture. American College of Surgeons, Chicago, Illinois, May, 1975.

50. Hypogenic Osteomyelitis in the Child. American College of Surgeons, Chicago, Illinois, May, 1975.

Papers Presented (continued):

51. Effect of Growth and Diseases of the Upper End of Femur. American Academy of Orthopedic Surgeons, Boston, Massachusetts, May, 1975.

52. Hypertrophy of the Lower Limb. American Academy of Orthopedic Surgeons, Boston, Massachusetts, May, 1975.

53. Coxa Vara. New England Orthopedic Society, Marwichport, Massachusetts, May, 1975.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

RECEIVED

MAY 27 1975

Chancellor and Dean's Office

MEMORANDUM

From Liberto Pechet, M.D. Date May 23, 1975

To Muriel Sawyer

Subject Annual Report Material Requested

For the Period July 1, 1974 to June 30, 1975

1. Additions of Bibliography:

Chesney, C., Colman, R.W., Pechet, L: A syndrome of platelet release abnormality and mild hemophilia. Blood 43:821, 1974.

Pechet, L., Snyder, L.M., Chesney, C., Colman, R.W.: Hemostatic defect due to acquired circulating inhibitor against lipid procoagulant and factor VIII. Thrombosis Et Diathesis Haemorrhagica 32:90, 1974.

Chandra, S., Pechet, L.: Proteolytic Activation of Purified Human Factor IX. Fed. Proc. 33:226, 1974.

Chandra, S., Pechet, L.: Purification and Activation of Human Factor IX. Clinical Research 22:385A, 1974.

Pechet, L., Chandra, S.: The Enzymatic Activation of Purified Human Factor IX. XV Congress International Society of Hematology, Jerusalem, 1974, p.306.

Katayama, I., Pechet, L.: Classification of Non-Hodgkin's Lymphomas (Letter to the Editor) The Lancet II:1211, 1974.

Katayama, I., Pechet, L.: Hairy Cells (Letter to the Editor) The Lancet I:975, 1975.

2. Current Research Grants: American Heart Association
Massachusetts Affiliate
85 Devonshire Street
Boston, Mass. 02109

From May 1, 1975
Through April 30, 1976

Sponsor: U.M.M.S.
Title: Proteolytic Activation of Factor IX and Platelets

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National Institute of Health
Division of Research Grants
Bethesda, Maryland 20014

From May 1, 1975
Through April 30, 1978

Sponsor: U.M.M.S.
Title: Purified Human Clotting Factor IX:Immunologic Studies

Muriel Sawyer
Annual Report Material
May 23, 1975

3. Professional Activities:

Moved full-time to Medical School. Continue to act as consultant in Hematology and Attending in Medicine at St. Vincent Hospital. Had become consultant at Memorial, Hahnemann and Holden Hospitals.

Member of the Committee for establishing Massachusetts Cytophoresis Program.

Member: Admissions Committee
Laboratory Medicine Committee
Library Committee
Chairman, Subcommittee for laboratory forms
at U.M.M.S.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From J m Price, PhD **Date** 6/30/75

To Muriel Sawyer

Subject annual report material

No additions for this time period.

J. Michael Price, PhD

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From David T. Purtilo, M.D. **Date** June 16, 1975

To Dean Butcher

Subject Annual Report of Activities

The following described my professional activities during the period July 1, 1974 to June 30, 1975.

I. Research

During this 12 month period I published 11 papers and have submitted an additional five papers for publication:

Purtilo, D.T., Hutt, L., Cassel, C.: X-linked Recessive Familial Lymphohistiocytosis. Clin. Res. 22:705A, 1974.

Purtilo, D.T., Clark, C.V. and Williams, R.: Primary Hepatic Malignancy in Pregnant Women. Am. J. Obstet. Gynec. 121:41-44, 1975.

Purtilo, D.T., Pangi, C.: Incidence of Cancer in Leprosy. Cancer 35:1259-1261, 1975.

Purtilo, D.T.: Fatal Mycotic Infections in Pregnant Women. Am. J. Obstet. Gynec. 122:607-610, 1975.

Purtilo, D.T., Walsh, G.P., Storrs, E.E., Gannon, C.: The Immune System of the Nine Banded Armadillo (Dasypus novemcinctus, LINN.). Anatomical Record, 181:725-734, 1975.

Purtilo, D.T., Brem, J. et al.: A Family Study of Pigeon Breeders' Disease. J. Ped. 86:569-571, 1975.

Purtilo, D.T., Connor, D.H.: Fatal Infections in Protein-Calorie Malnourished Children with Thymolymphatic Atrophy. Arch. Dis. Childh. 50:149-152, 1975.

Yang, J.P.S. and Purtilo, D.T.: Pigeon Breeders' Disease: Immunofluorescent Localization of Sensitizing Antigens in Pigeons. J. Clin. Immunol. and Immunopath. 4:46-51, 1975.

Purtilo, D.T., Cassel, C., Yang, J.P.S., Stephenson, S.R., Harper, R., Landing, B.H. and Vawter, G.F.: X-linked Recessive Progressive Combined Variable Immunodeficiency (Duncan's Disease). The Lancet i:935-941, 1975 (Leading article in the Journal which describes a new disease)

Purtilo, D.T., Constantian, H. and DeGirolami, E.: Epsilon Aminocaproic Acid in Hematuria. Lancet i:755, 1975.

Purtilo, D.T.: Survival of the Genetically Incompatible Fetal Graft. Lancet i:1148, 1975.

In addition, I have finished writing approximately 50% of a textbook entitled Pathology for Allied Health Professionals and have signed a contract with the Addison-Wesley Publishing Company, Reading, Massachusetts. The majority of this basic pathology textbook was written during the past 4 months. I am the sole author.

II. Research Grants

David T. Purtilo, M.D. - Principal Investigator, James P. S. Yang, M.D., co-investigator. Public Health Service CA 16969-01A1, Commonwealth of Massachusetts 5-25619.

Title: "Human Urinary Bladder Tumor Antigens" Public Health Service.

In addition, I have completed a pilot study on lymphocyte functions to be submitted for funding.

III. Teaching

I have been responsible for teaching immunopathology in the General Pathology course given the first semester. Also I have given lectures and laboratories on opportunistic infections, hepatic neoplasms and malnutrition. My participation in teaching in the laboratory has amounted to approximately 25% of the laboratory sessions given throughout the year for the students.

I have supervised 3 medical students on ongoing research projects during the summer and continue to do so during the year. All of these projects have resulted in the writing and submission or publication of the work. These students are Salvatore Basta, Daniel DeFlorio and Christine Cassel. Miss Cassel participated in a national SAMA competition and presented her work in Texas during this past spring.

Beginning June 14, 1975 two medical students will carry out research in my laboratory. These students are Mr. Stephen Kerzner, who is a 1975 Goldberger Research Fellow. He will study the immunology of malnutrition. He has been awarded a competitive stipend. In addition, Mr. Mitchell Sweet will work with me on the immunology of pigeon breeders' disease.

I offer an elective in Immunopathology in which one student has enrolled in for 12 weeks.

IV Consultations and Meetings

I have presented scientific papers at the National Meeting of the Reticuloendothelial Society in Seattle Washington in December 1974 and at the Clinical Research Forum in February 1975 in Boston, In addition I have spoken to the Massachusetts Academy of Pediatrics in May, 1975. I have given Grand Rounds at Worcester City Hospital and Boston Children's Hospital Medical Center and have given a two-day hematology workshop for the North Dakota State Medical Technologists Society in September, 1974.

In summary, my efforts have produced 11 publications, one-half of a book, a new disease and a federal research grant. Five medical students have benefited from association with my efforts.

David T. Purtilo (MD)

David T. Purtilo, M.D.
Assistant Professor

DTP/lmv

Publications : Additions to bibliography

1. Pfeiffer, D.R., Reed, P.W. and Lardy, H.A. (1974) The ultraviolet and fluorescent spectral properties of the divalent cation ionophore A23187 and its metal ion complexes.
   Biochemistry 13, 4007-4014.

2. Reed, P.W., Pfeiffer, D.R. and Lardy, H.A. (1975) Divalent cation transport by antibiotic A23187.
   Proc. of the Second Annual New England Bioengineering Conference, Puera, R.A. et al. Eds., Vermont University Press, 73-80.

3. Reed, P.W. and Lardy, H.A. (1975) Uncoupling and Specific Inhibition of Phosphoryl Transfer Reactions in Mitochondria by Antibiotic A20668.
   J. Biol. Chem. 250, 3704-3708.

Abstracts

1. Reed, P.W. (1975) Effects of a new ionophorous antibiotic, A17178, on mitochondrial function.
   Fed. Proc. 34, 519.

2. Murray, J.J., Reed, P.W. and Fay, F.S. (1975) Effects of the divalent cation ionophore A23187 on isolated smooth muscle cells.
   Fed. Proc. 34, 361.

Current Research Grant : from the American Heart Association

Title : Role of divalent ions in erythrocytes and leukocytes.

Professional activities :

Member of the American Society of Biological Chemists (1971).
Member of the Society for the Study of Reproduction (1972).
Member of Contract Review Committee on Sperm, Center for Population Research, National Institutes of Health (1973-1975).
Member of the Federation of American Scientists (1973).
Member of the American Chemical Society (1974).
Member of the American Association for the Advancement of Science (1974).
Member of the New York Academy of Sciences (1975)

Established Investigator of the American Heart Association (1972-present), (to continue until 1977).

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Charles Regan Date May 7, 1975

To Miss Muriel Sawyer

Subject Annual Report Material 7/1/74-6/30/75

The following is in reply to your memo of April 29, 1975.

I. Bibliography

1. Regan CDJ, Trempe CL: Argon Laser Photocoagulation of Aphakic Microcystoid Macular Edema. In press. Proceedings of International Symposium on Eye and Laser, Albi, France.

2. Holt W, Regan CDJ, Trempe CL: Acute Posterior Multifocal Placoid Pigment Epitheliopathy. In press. Presented at Mass. Eye and Ear Infirmary - New England Ophth. Soc. Meeting May 9, 1975.

II. Research Grants

None

III. Professional Activities

1. Paper on treatment of macular edema. Retina Society meeting, Montreal Sept. 13-14, 1974. Also Vice-President, Retina Society.

2. Four symposia on macular diseases and retinal detachment. Annual Meeting, Dept. of Ophthal., Universite Laval, Quebec, Jan. 30-31, 1975. (Guest of Honor)

3. Participant, regular monthly meetings New England Ophthal. Soc. Nov. 1974 - May 1975. Also member Program Committee.

4. Participant, Vitreoretinal Congress, The Retina Foundation, Boston, June 5-7, 1975.

5. President-elect, Mass. Ophthal. Society.

6. Member, Assoc. of Univ. Professors of Ophthalmology.

ANNUAL REPORT OF ACTIVITIES

The report of my activities for academic 74-75 must be divided into 2 periods:

(A) July 1 - September 30, 1974, as Associate Dean for Academic Affairs;

(B) October 1, 1974 - June 30, 1975, as Director of Ambulatory Care.

The report deals entirely with professional activities since I was not involved in research and had no publications during the year.

A. As Associate Dean for Academic Affairs (July 1 - September 30, 1974)

1. Admissions - On July 1, 1974 Dr. Joel Feinblatt became Assistant Dean for Admissions and assumed responsibility for applicants for the class entering September 1975. My efforts were therefore directed to the class that entered in September of 1974. Out of approximately 1,025 applicants, 64 students were admitted. It is gratifying that this class has among its members 6 students who are members of racial minority groups, including the first black students to be admitted to the school.

2. Registration and Orientation - Primary responsibility for registration and orientation of the September '74 class was delegated to Dr. Robin Davidson, Assistant Dean for Student Affairs and Ms Mayre Coulter, Registrar. At the orientation exercises Dr. Edgar Smith was introduced as incoming Associate Dean for Academic Affairs.

3. Summer Program - Final arrangements were made for a summer program of academic enrichment for selected entering students. The program was conducted by the Departments of Anatomy, Biochemistry and Physiology during the months of July and August. Five students who felt that the program would be of particular benefit to them participated. Although the first such program attempted, it was the consensus of faculty and students participating that the effort was worthwhile and the experience would serve as a base for any such efforts in the future.

4. Catalogue Supplement - For various reasons, it was decided that the '73-'74 catalogue would be used for '74-'75 with the addition of a supplement. This supplement, emphasising additions to the faculty and student body, was prepared and ready for distribution by October 1.

5. Financial Aid - By mutual agreement with Dean Soutter and Drs. Davidson and Smith, I continued to serve as Chairman of the Financial Aid Committee throughout the fall. During this time awards of student loans and scholarships for both semesters of this academic year were made. In addition, the annual report to the Department of Health, Education and Welfare was completed showing the distribution of money from the

Health Profession Student Loan and Scholarship Funds.

6. Registrar's Activities - Ms Coulter continued to be responsible for general supervision of: applications for admission; obtaining and recording reports from all departments on each student's academic progress; preparation of transcripts; registration of incoming third year students with the Massachusetts Board of Registration In Medicine; assisting in preparation of responses to the numerous requests for statistical information regarding applicants and student body; assisting with arranging student housing.

B. As Director of Ambulatory Care (10/1/74 - 6/30/75)

1. Hospital Visits, Meetings and Institutes - To become better acquainted with the organization and administration of "university hospital" outpatient operations, visits of 1 to 3 days were made to Beth Israel and Massachusetts General Hospital in Boston and to Strong Memorial Hospital in Rochester, New York.

In November I was invited to participate in a three day Institute on Primary Care sponsored by the Association of American Medical Colleges and held in Chicago. In March I participated in a two day workshop in primary care held in Boston, also sponsored by the AAMC. In April I attended a two day meeting in Tucson with some 100 physicians and administrators from University Hospitals across the country, discussing ambulatory care programs and general financing of teaching hospitals.

2. Beginning of Outpatient Services - Most of my time and effort has gone into planning for the start-up of patient care in the outpatient areas of the University of Massachusetts Hospital. Many meetings with numerous individuals and groups dealt with major policies and procedures as well as minute details. Although the clinics are not officially open to the general public, scheduled patient visits with staff physicians began on Tuesday, May 20, 1975. That this was possible (given the limitations and uncertainties relating to personnel, budget, and supplies) was due to the splendid cooperation of many individuals and departments.

3. Committee Activities - These have consisted of the following: Committee on Hospital Planning; Pharmacy and Therapeutics Committee; Laboratory Committee; Family Practice Residency Review; Subcommittee on Residencies; Committee on Electives; Committee on the Protection of Human Subjects in Research; Library Committee.

C. Activities Overlapping Periods A & B

Certain activities have been ongoing throughout the academic year, among them:

1. Radiology Search Committee - When Dr. Wheeler was appointed Chief of Staff in the fall of '74, I was asked to assume the Chairmanship of this Search Committee. The activities of the committee were terminated upon the appointment of Dr. Lloyd Hawes as the Chairman of the Department of Radiology.

2. OBS/GYN Search Committee - The search for a permanent chairman of this department has continued up to the present time.

3. Committee on Governance - This committee has concerned itself with drafting a governance document for review and approval by the faculty at large and the administrative authorities of the University.

4. Department of Medicine Activities - These have consisted of participation in the monthly meeting of the city-wide membership of the departmental faculty; more frequent meetings of the full time faculty based at the Medical School concerned with long-range planning; one lecture to the second year class on the courses in physicial diagnosis; participation in recruitment of future faculty members.

5. Multicampus Personnel Policy Committee - This is an ad hoc committee appointed by the President's Office (with members from each of the three campuses) and charged with the responsibility to develop a faculty personnel policy that would be in effect throughout the university once adopted by the Trustees. The Committee presented the document to the President in time for review by the Trustees at their meeting in May, 1975. Approximately ten working days were devoted to this activity during the year.

D. Community Activities - These have related directly to the Comprehensive Health Planning Council of Central Massachusetts. Presently, I hold membership on three of its committees; the Emergency Medical Services Advisory Committee; the EMS Steering Committee; and the Worcester Area Hospital/Medical Committee on Emergency Medical Service.

Respectfully submitted,

[signature], M.D.

June 10, 1975

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Gary B. Schneider, Ph.D. Date June 16, 1975

To Dean's Office

Subject Annual Report Material

1. Additions to Bibliography

Schneider, Gary B., 1974, "Proliferative Response to the Skin-Sensitizing Contact Agent Dinitrofluorbenzene in Lymph Nodes in Mice," American Journal of Anatomy: 141; 219-234.

Katayama, I., & Gary B. Schneider, 1975, "Cell-Surface Structure in Hairy-Cell Leukaemia," The Lancet: Saturday, April 15, Pg. 920.

Katyama, I., J. Valacer, J.P. S. Yang, G. B. Schneider, & L. Pechet, 1975, "Hairy Cells in Chronic Lymphocytic Leukaemic and Leukaemic Reticuloendotheliosis," (Submitted to BLOOD).

Schneider, Gary B., 1975 "The Response to Oxazolone in Snell-Bagg Pituitary Dwarf Mice", The Anatomical Record: 181; 471.

2. National Science Foundation Grant Number GB-38360 "Neonatal Adoption and Immunological Maturation." Co-principal investigator.

3. a) Presented a paper, "The Response to Oxazolone in Snell-Bagg Pituitary Dwarf Mice," at the annual meeting of the American Association of Anatomists on March 27, 1975, in Los Angeles.

b) Interviewed students for the Admission Committee.

c) Became a member of the Radiation Saftey Committee for the Medical Center

d) Reviewer for a number of manuscripts submitted to The American Journal of Anatomy.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Linda Shlatz, Ph.D., Biochemistry Date June 6, 1975

To Deans Office

Subject

As requested for the Dean's Annual Report to the President:

1. Additions to bibliography

Schwartz, I. L., Shlatz, L., Kinne-Saffran, E. and Kinne, R. (1974) Target Cell Polarity and Membrane Phosphorylation in Relation to the Mechanism of Action of Antiduretic Hormone. Proc. Nat. Acad. Sci., USA, 71, 2595-2599.

2. I do not presently hold a research grant

3. During the period of September 1, 1974 to June 30, 1975, I have worked with Dr. R. W. Butcher as a research associate.

LS/sjb

Wayne Edward Silva, M.D.

DATE OF BIRTH:	July 22, 1941	
PLACE OF BIRTH:	Taunton, Massachusetts	
MARRIED:	3 children	
EDUCATION:	1955-1959	Msgr. James Coyle High School Taunton, Massachusetts
	1959-1963	Tufts University, B. S.
	1963-1967	Tufts University, School of Medicine, M.D.
POSTGRADUATE TRAINING:	1967-1968	St. Vincent Hospital, Worcester, Mass. Rotating Internship
	1968-1969	St. Vincent Hospital, Surgical Residency
	1971-1973	St. Vincent Hospital, Surgical Residency
	1973-1974	St. Vincent Hospital Chief Surgical Resident
MILITARY SERVICE:	1969-1971	U.S. Army Medical Officer, John F. Kennedy Special Warfare Center and the U.S. Army Institute for Military Assistance, Fort Bragg, N. C. Honorable Dishcarge, July, 1971
	Present	11th Special Forces, Reserve, Rank of Major
BOARD CERTIFICATION:	7/1/68	National Board of Medical Examiners
	12/4/74	Part I, American Board of Surgery
MEDICAL LICENSURE:	7/11/68	State of Massachusetts, #30784
	1/10/70	State of North Carolina, #16712

PREVIOUS EXPERIENCE:

Clinical: ROTATING INTERNSHIP - 6 weeks Emergency Room, 2 months Intensive Care Unit, 2 months Surgery, 6½ months Medicine.
SURGICAL RESIDENCY - 4 months each of rotations on Neurosurgical and Orthopedic services, 5 months of considerable experience in Urology having performed a large number of major procedures, 5 months of Thoracic Surgery, 2 months of Surgical Intensive Care Unit, 1 month of Pathology, and 2 months in the Emergency Ward. The rest of the months were in General, Vascular, and GYN Surgery.
GYN SURGICAL RESIDENCY - Rotations were through 3 individual teams, consisting of General Surgical, Vascular Surgical, and the various subspecialties of GYN, Neurosurgical, Thoracic, Urological and Plastic Surgical services.
EMERGENCY ROOM - Many months of duty in several emergency wards between 1969-1971.

EXPERIENCE (cont.)

Teaching: 1969-1971 - Assignment to United States Army Institute for Military Assistance. Duties included preparing and delivering lectures to the well known Green Beret Medics. Material was on the level of that presented to 3rd year and 4th year medical students. Most of the students were college graduates and were carefully selected and motivated. The program of instruction was the prototype for many of the present P.A. programs.

1973-1974 - Instructor in Surgery, the University of Massachusetts Medical School

Present - Military assignment requires the provision of further training for the medics. In this capacity I have been an instructor for the AHA in training CPR technicians. Other training has been in Orthopedics, surgical techniques, and in dog laboratory.

Administrative: 1969-1971 - Eighteen months of the 2 year assignment with USAIMA was as director of the Medical Training School. This involved administrating the duties of approximately 50 officers and NCO's as related to the training program of the "medical students". The writing and editing of lesson plans and the program of instruction was a major function of the position. Several universities utilized the POI and our experience in developing their own P.A. programs.

1973-1974 - Administrative Chief Resident, St. Vincent Hospital, Worcester, Massachusetts

PRESENT APPOINTMENTS:

1974 - Assistant Professor, Department of Surgery, University of Massachusetts Medical School, Worcester, Massachusetts

1974 - Consultant in Surgery, Worcester State Hospital, Worcester Massachusetts

1974 - Courtesy Staff, Worcester City Hospital, Worcester, Massachusetts

1974 - Courtesy Staff, St. Vincent Hospital, Worcester, Massachusetts

1974 - Ambulatory Care Committee, University of Massachusetts Medical School, Worcester, Massachusetts

1974 - Educational Policy Committee, University of Massachusetts Medical School, Worcester, Massachusetts

1974 - Worcester Area Emergency Medical Service Hospital/Medical Subcommittee, Worcester, Massachusetts

1974 - Medical Care, Standards and Review Committee, University of Massachusetts Medical School, Worcester, Massachusetts

1974 - Operating Room Committee, University of Massachusetts Medical School, Worcester, Massachusetts

SOCIETY MEMBERSHIPS:

Massachusetts Medical Society
American College of Surgeons (candidate)

MAJOR RESEARCH AND/OR PROFESSIONAL INTEREST:

Training of paramedical personnel (EMT's in particular) and the delivery of emergency surgical (medical) services.
Medical Photography.

OTHER INTERESTS:

Opera, scuba diving and sky diving.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Joshua J. Singer Date June 27, 1975

To Muriel Sawyer

Subject Annual Report Material

1. Additions to bibliography

   Fay, F.S. and Singer, J.J. "Contractile Responses of Isolated Smooth Muscle Cells in Suspension". Presented at the 26 International Congress of the International Union of Physiological Sciences, New Delhi, 1974.

2. Current Research Grant

   Co-Investigator: "Generation and Regulation of Force in Smooth Muscle" - NIH.

Joshua J. Singer
Em

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Robert H. Singer Date June 27, 1975

To Dean' Office

Subject Additions to Bibliography & Current Research Grants

Additions to Bibliography

Spradling, A., Singer, R., Lengyel, J., and Penman, S., (1975). Methods in Cell Biology: 10, D. Prescott, Editor, New York: (Academic Press)

Current Research Grants

Sponsor: NIH

Title: Molecular Biology of Differentiating Cells

Sponsor: Muscular Dystrophy Association of America

Title: Molecular Biology of Differentiating Muscle Cells

Robert H. Singer, Ph.D.
Assistant Professor
Department of Anatomy

RHS/naf

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Edgar E. Smith, Ph.D., Provost Date June 23, 1975

To Muriel Sawyer

Subject Annual Report Material

Addition to bibliography:

Asnes, Clara F. & Smith, Edgar E. The Effect of Adenosine 3',5'-monophosphate on the cell cycle of KB cells. (manuscript in preparation)

Research Grants:

Title: Carbamylation of Sickle Cell Hemoglobin

Sponsor: National Institute of Health

Professional Activities

I. Within the Medical School

A. Associate Dean for Academic Affairs
B. Provost
C. Service on several committees
D. Teaching (as of September, 1975)
E. Research

II. Outside of Medical School

A. Lecturer, American Society of Biological Chemistry
B. Visiting Professor, Atlanta University, Atlanta, Georgia
C. Site Visitor, Bureau of Health Manpower, Dept. of Health, Education and Welfare.
D. Guest lecturer, Course in Cell Biology, Harvard University

sej

M. Susan Smith, Ph.D.

1. Personal Bibliography

Lipner, H. and M. Susan Smith. A Method for Determining the Distribution and Source of Protein in Preovulatory Rat Ovaries. J. Endocrinol. 50:187, 1974.

Smith, M. Susan and L.E. McDonald. Peripheral Levels of Serum LH and Progesterone During the Estrous Cycle, Pseudopregnancy and Preganancy in the Dog. Endocrinology 94:404, 1974.

Freeman, M.E., M.S. Smith, S.J. Nazian and J.D. Neill. Ovarian and Hypothalamic Control of the Daily Surges of Prolactin Secretion of Pseudopregnancy in the Rat. Endocrinology 94:875, 1974.

Neill, J.D. and M.S. Smith. Pituitary-ovarian Interrelationships in the Rat. Current Topics In Experimental Endocrinology, Vol. II, Academic Press, 1974, p.79.

Smith, M.S., M.E. Freeman and J.D. Neill. The Control of Progesterone Secretion During the Estrous Cycle and Early Pseudopregnancy in the Rat: Prolactin and Gonadotropin Levels Associated with Rescue of the Corpus Luteum of Pseudopregnancy. Endocrinology, 96:219, 1975.

Smith, M.S., B. McLean and J.D. Neill. Prolactin: The Initial Luteotropic Stimulus of Pseudopregnancy in the Rat. (Endocrinology, In Press).

Smith, M.S. and J.D. Neill. Termination at Midpregnancy of the Daily Biphasic Surges of Prolactin Secretion Initiated by Mating in the Rat. (Endocrinology, Pending revision).

Smith, M.S. and J.D. Neill. The relative Contribution of the Suckling Stimulus and Ovarian Steroids to Gonadotropin Inhibition During Lactation in the Rat. (Endocrinology, submitted for publication).

Smith, M.S. and J.D. Neill. A "Critical Period" for Cervically-Stimulated Prolactin Release (Endocrinology, In Press).

Abstracts

Lipner, H.M., M. Susan Smith and J. Eaton. PMS and HCG - Activated Synthesis of DNA and RNA in Immature Rat Ovaries. Fed. Proc. 27:740, 1968.

Smith, M. Susan and L.E. McDonald. Serum Levels of LH and Progesterone During the Estrous Cycle, Pregnancy and Pseudopregnancy in the Dog. Fed. Proc. 31: 257, 1972.

Freeman, M.E., M.S. Smith and J.D. Neill. The Daily Nocturnal Prolactin Surge During Pseudopregnancy in the Rat: Effect of Ovariectomy. IV International Congress of Endocrinology, 1972.

Smith, M.S. and J.D. Neill. Termination at Midpregnancy of the Daily Biphasic Surges of Prolactin Secretion Initiated by Mating in the Rat. Fed. Proc. 32:307, 1973.

Smith, M.S. and J.D. Neill. The Control of Progesterone Secretion During the Estrous Cycle and Early Pseudopregnancy in the Rat: Prolactin and Gonadotropin Levels Associated with Rescue of the Corpus Luteum of Pseudopregnancy. 55th Annual Endocrine Society, Chicago, 1973.

Smith, M.S. and J.D. Neill. Initiation and Maintenance of Prolactin Surges by Cervical Stimulation of Ovariectomized Rats. Fed. Proc. 33:238, 1974.

Smith, M.S. and J.D. Neill. Prolactin: The Initial Luteotropic Stimulus of Pseudopregnancy in the Rat. 56th Annual Endocrine Society, Atlanta, 1974.

2. Research Grants

a. General Research Support - Inhibition of Ovulation during Lactation, 1974-1975.

b. NIH - Control of Gonadotropin Secretion During Lactation; approved, funding pending.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Donald J. Tipper, Ph.D. Date May 16, 1975

To Miss Muriel Sawyer

Subject Additions for Annual Report

I. Additions to bibliography

a) Khachatourians, G. G. and Tipper, D. J. (1974). Antimicrobial Agents and Chemotherapy. 6:304-310. In vivo effect of thiolutin on cell growth and macromolecular synthesis in E. coli.

b) Khachatourians, G. G. and Tipper, D. J. (1974). J. Bacteriol. 119:795-805. Inhibition of messenger ribonucleic acid synthesis in E. coli by thiolutin.

c) Guinand, M., Michel, G. and Tipper, D.J. (1974). Appearance of a γ-D-glutamyl-(L)-meso-diaminopimelate peptidoglycan hydrolase during sporulation in B. sphaericus 9602. J. Bacteriol. 120:173-184.

d) Linnett, P.E. and Tipper, D. J. (1974). Cell wall polymers of B. sphaericus 9602. III. Activities of enzymes involved in peptidoglycan precursor synthesis during sporulation. J. Bacteriol. 120:342-354.

e) Holt, S.C., Gauthier, J.J. and Tipper, D.J. (1975). Ultrastructural studies of sporulation in Bacillus sphaericus 9602.

Submitted and accepted for publication: Journal of Bacteriology, 1975.

II. Current research grants

a) NIH AI 10806-02 - Control of bacterial cell wall synthesis and breakdown

b) NIH GM 20755-01 - Inhibitors of yeast RNA polymerases

III. Professional activities

Editor, Journal of Bacteriology

CURRICULUM VITAE

RICHARD F. WALTON, M.D.

BORN:	August 13, 1935	
WIFE:	Susan McNett	
CHILDREN:	6 ages 16 to 4	
EDUCATION:	1953-1955	Bates College, Lewiston, Maine
	B.A. 1959	Queen's University School of Liberal Arts Kingston, Ontario, Canada
	M.D. 1961	Queen's University Medical School Kingston, Ontario, Canada
INTERNSHIP:	1961-1962	Rotating - Kingston General Hospital (2 months Elective Cardiology)
RESIDENCY:	1962-1963	Assistant Resident, Boston City Hospital Boston University Medical Service (reorganized the Boston Univ. Outpatient Medical Services)
BOARD CERTIFICATION:	1974	American Board of Family Physicians, Diplomat
	1962	National Board of Medical Examiners
	1961	Canadian Council Examinations
MEDICAL LICENSURE:	1963	Massachusetts
AWARDS:		Frederick Boyd Award for Medical Competence
		Professor's Prize in Public Health and Preventive Medicine
	1968	Outstanding Young Men of Holden, Holden Jaycees
	1970	Outstanding Young Men of America Award Nominated by Holden District Hospital

PRESENT TEACHING APPOINTMENT:

1974 to present - Chairman, Department of Family Practice, University of Massachusetts Medical School, Worcester, Massachusetts

1974 to present - Chief, Division of Family Practice, Worcester City Hospital, Worcester, Massachusetts

PAST TEACHING APPOINTMENTS:

1973 to 1974 - Associate Professor, Department of Community & Family Medicine University of Massachusetts Medical School, Worcester, MA

1973 to 1974 - Director, Division of Family Medicine, University of Massachusetts Medical School, Worcester, Massachusetts

1971 to 1973 - Assistant Professor, Department of Community & Family Medicine University of Massachusetts Medical School, Worcester, Massachusetts

1971 Consultant, Department of Community & Family Medicine, University of Massachusetts Medical School, Worcester, Massachusetts (3 week Clerkships)

1969 to 1969 - Preceptor, Department of Community Medicine, University of Vermont, Burlington, Vermont (Senior Medical Students)

PRESENT HOSPITAL APPOINTMENTS:
Active Staff - Holden District Hospital
Courtesy Staff - Worcester City Hospital
Courtesy Staff - Worcester Hahnemann Hospital
Courtesy Staff - Burbank Hospital (applied)

PROFESSIONAL ORGANIZATIONS:
American Medical Association
American College of Emergency Physicians
Society for Teachers of Family Medicine
American Academy of Family Physicians, Charter Fellow
Massachusetts Academy of Family Physicians
Massachusetts Medical Society
Worcester District Medical Society

PRESENT LOCAL ORGANIZATIONS:
Comprehensive Health Planning Council, Emergency Medical Services Committee
Worcester City Hospital:
- Executive Committee
- Education Committee
- Family Practice Advisory Committee
- Medical Audit Committee
- Long Range Planning Committee
- Committee For Comprehensive Emergency Services & Ambulatory Care
- Search Committee for Chief, Emergency Room

Holden District Hospital, Board of Directors
Visiting Nurse Association, Professional Advisory Committee

PAST LOCAL ORGANIZATIONS:
Comprehensive Health Planning Council, Barre Task Force
Wachusett District Committee to Study Health & Social Services
Home Health Care Agency
- Medical Advisor
- Committee to Establish Home Health Nursing & Rehabilitation (received State & Federal Medicare & Medicaid Approval)

Wachusett Community Services
- Planning Committee
- Health Committee
- Laurel Clayton-Allen Fund Review Committee

Holden District Hospital Committee/Post Graduate Institute (for continuing education and core library)
Holden Nursing Home Utilization Review Committee
Holden District Hospital Intensive Care Unit
Holden District Hospital Executive Committee
University of Massachusetts Medical School, Audiovisual Aids Committee

PRESENT STATE & REGIONAL ORGANIZATIONS:
Worcester District Medical Society:
- Regional Health Planning Committee
- Committee on Emergency Medical Coverage

Massachusetts Medical Society, Committee on Continuing Medical Education (Added January, 1975)

PRESENT STATE & REGIONAL ORGANIZATIONS: (continued)
Massachusetts Academy of Family Physicians:
Program Committee
Education Committee
Society of Teachers of Family Medicine:
Program Committee

PAST STATE & REGIONAL ORGANIZATIONS:
Central Massachusetts Family Planning Council:
Personnel Committee
Executive Committee
Board of Directors
Worcester Area Drug Coalition (Original Cooperator)
Central Massachusetts Regional Hospital Planning Council (1965-1969)
Board of Corporators
Holden District Hospital Representative (1965-1967)
Committee to Study Application for Public Law 89-749 Planning Grant
Central Massachusetts Regional Health Planning & Coordinating Council
Study Committee
Planning Council
1968 Central Mass. Representative to New England Nursing Home/E.C.F. Convention
State Committee to Develop Universal Medical Facility Transfer Agreement
Worcester District Medical Society Counselor

WORK AND PRACTICE EXPERIENCE:
1963 to 1967 - Full-time General Practice, Holden, Massachusetts
1967 to 1969 - Part-time General Practice, Holden, Massachusetts
Full-time Electrocardiography, Holden District Hospital
1969 to 1970 - Assistant Medical Director, State Mutual Life Assurance Co.
1970 to 1971 - Associate Medical Director, State Mutual Life Assurance Co.
1971 to 1973 - Tri-State Regional Medical Program Coordinator for the University of Massachusetts Medical School
1964 to 1968 - Chief, Medicine and Pediatrics, Holden District Hospital
1966 to 1967 - President Elect, Medical Staff, Holden District Hospital
1965 to 1970 - Medical Director of Extended Care Facility, Holden Nursing Home

PRESENTATIONS
January, 1975 - Annual Oration, Family Practice, Worcester District Medical Society
May, 1975 - North District Medical Society Guest Speaker, Family Practice -- Massachusetts & Nationally
June, 1975 - Presentation to Joint Boards of Directors and Medical Staff of Lawrence General Hospital and Bon Secours Hospital on "Family Practice"
[illegible], 1975 - Guest Speaker, Symposium on Family Practice, Sponsored by Tufts Medical School
[illegible] - Moderator, Annual Meeting of the American Academy of Family Physicians
[illegible] - Speaker, Massachusetts Medical Society, Family Practice Section
[illegible] - Speaker, Program on Handicapped Children, Tewksbury Hospital
[illegible] - Speaker, Problem Oriented Medical Record Seminar, Worcester Morning Medical Society
[illegible] - Moderator, "Teaching of Preventive Medicine in Family Medicine" for Society of Teachers of Family Medicine at the American Public Health Association Annual Meeting and Association of American Medical Colleges [illegible]

PRESENTATIONS (continued):
December, 1974 - Family Practice Residency Training at Dartmouth Medical School
December, 1974 - Massachusetts Medical Society Workshop "Continuing Education—The Community Hospital"

GRANTS:
Special Project Grant for Preceptorship Training in Family Medicine, Department of Health Education, Welfare ($775,000 for 5 years)
Transferred by Dr. Lamar Soutter to Dept. of Community & Family Medicine
Tri State Regional Medical Program Grant to Main Family Health Center ($161,328)
Model Cities Family Health/Social Service Center, Department of Health, Education, Welfare ($35,592)
Worcester City Hospital, To Develop and Expand a Family Medicine Residency Program, Dept. of Health, Education, Welfare ($35,304)

RESIDENCY APPROVAL:
University of Massachusetts Medical School/Worcester City Hospital Family Practice Residency Approval from American Medical Association, 1974

CURRICULUM VITAE

DOUGLAS RUSSELL WAUD

Born:	October 21, 1932 in London, Ontario, Canada
1969	U.S. Citizenship
1945-50	London South Collegiate Institute, Ontario
1955	Lederle Research Fellow
1956	M.D., University of Western Ontario, London, Ontario
1964	D.Phil., University of Oxford, England
1956-57	Rotating Internship, St. Joseph's Hospital, London, Ontario
1957	LMCC, Ottawa, Canada
1957-59	Life Insurance Medical Research Fellow, Department of Pharmacology, Harvard Medical School, Boston, Massachusetts
1959-60	Instructor in Pharmacology, Harvard Medical School
1960-63	Life Insurance Medical Research Fellow, Department of Pharmacology, University of Oxford, England
1961-63	Demonstrator in Pharmacology, University of Oxford
1963-65	Associate in Pharmacology, Harvard Medical School
1965-69	Assistant Professor of Pharmacology, Harvard Medical School
1966-	Research Career Development Awardee, National Institute for Neurological Diseases and Stroke, National Institutes of Health
1967-69	Tutor in Pharmacology, Harvard Medical School
1968-71	Acting Head, Department of Pharmacology, Harvard Medical School
1969-70	Consultant in Surgery (Pharmacology), Peter Bent Brigham Hospital, Boston
1969-74	Associate Professor of Pharmacology, Harvard Medical School
1970-	Consultant in Pharmacology to the Department of Anaesthesia, Peter Bent Brigham Hospital, Boston
1974-	Professor of Pharmacology, University of Massachusetts Medical School, Worcester, Massachusetts

Memberships:

1955	Alpha Omega Alpha
1960	American Society for Pharmacology and Experimental Therapeutics
1967	American Association for the Advancement of Science
1969-71	Association for Medical School Pharmacology
1973	British Pharmacological Society
1973	Physiological Society

Administrative:

1956-60 Student Laboratory Organization
1959-60 Departmental Representative to Section on Teaching for Gastrointestinal Trac
and 1963-
1965-68 Member, Committee for Scheduling in Second-Year Medical Course
1967 Curriculum Planning Subcommittee, Harvard Medical School
1967-68 Member, Dean's Committee for Curriculum Revision, Harvard Medical School
1967-69 Member, Medical School Tutorial Committee
1967-69 Auxilliary Member, Admissions Committee, Harvard Medical School
1968-69 Program Director, U.S. Public Health Service Training Grant, Department of Pharmacology
1968-71 Departmental Representative, Division of Medical Sciences, Faculty of Arts and Sciences (Graduate School)
1968 Member, Harvard/M.I.T. Committee on Physiological Systems Analysis of National Academy of Engineering Study
1968 Member, Committee to establish teaching program in Cardiovascular Medicine of New Curriculum
1968- Member, Editorial Advisory Board of Journal of Pharmacology and Experimental Therapeutics
1968- Member, Cell Biology and Human Biology Promotion Board, Harvard Medical Sch
1968-71 Acting Head, Department of Pharmacology, Harvard Medical School
1968-73 Member, Medical Curriculum Committee, Harvard Medical School
1968-70 Member, Administrative Board, Harvard Medical School
1968-71 Member, Wellington Fund Committee, Harvard Medical School
1968 Member, Examinations Committee, Harvard Medical School
1968-71 Member, Preclinical Council, Harvard Medical School
1969-72 Member, Committee of Higher Degrees in Medical Sciences, Harvard Medical Sci
1970-73 Faculty Advisor to the Class of 1973, Harvard Medical School
1969-70 Member, Space Committee, Harvard Medical School
1971-73 Member, Committee on Programs of the Division of Medical Sciences of the Faculty of Arts and Sciences, Harvard University
1971-73 Member, Planning Subcommittee of Curriculum Committee

PUBLICATIONS

Research Papers

1. Waud, R.A. and Waud, D.R.: Immediate effects of rapid hemorrhage on hemodynamics in the dog. Can. J. Biochem. Physiol. 34: 827-834, 1956.

2. Innes, I.R., Krayer, O. and Waud, D.R.: The action of Rauwolfia alkaloids on the heart rate and on the functional refractory period of atrioventricular transmission in the heart-lung preparation of the dog. J. Pharmacol. Exp. Ther. 124: 324-332, 1958.

3. Waud, D.R., Kottegoda, S.R. and Krayer, O.: Threshold dose and time course of norepinephrine depletion of the mammalian heart by reserpine. J. Pharmacol. exp. Ther. 124: 340-346, 1958.

4. Waud, D.R. and Sheps, M.C.: A note on statistical analysis of biological data. Arch. exp. Path. Pharmak. 235: 473-477, 1959.

5. Swaine, C.R. and Waud, D.R.: Cardiac activity of a series of synthetic steroid bases. J. Pharmacol. exp. Ther. 128: 259-264, 1960.

6. Waud, D.R. and Krayer, O.: The rate-increasing effect of epinephrine and norepinephrine and its modification by experimental time in the isolated heart of normal and reserpine-pretreated dogs. J. Pharmacol. exp. Ther. 128: 352-357, 1960.

7. Blinks, J.R. and Waud, D.R.: Effect of graded doses of reserpine on the response of myocardial contractility to sympathetic nerve stimulation. J. Pharmacol. exp. Ther. 131: 205-211, 1961.

8. Waud, D.R.: The influence of reserpine upon the changes in femoral blood flow produced by stimulation of the lumbar sympathetic chain. Experientia 17: 234, 1961.

9. Krayer, O., Astwood, E.B., Waud, D.R. and Alper, M.H.: Rate-increasing action of corticotropin and of α-intermedin in the isolated mammalian heart. Proc. Nat. Acad. Sci. 47: 1227-1236, 1961.

10. Liebman, J., Muskus, A.J. and Waud, D.R.: The depletion of norepinephrine stores in the heart of the dog by reserpine-type alkaloids. J. Pharmacol. exp. Ther. 136: 75-79, 1962.

11. Paton, W.D.M. and Waud, D.R.: Drug-receptor interactions at the neuromuscular junction. In Ciba Foundation Study Group No. 12, on Curare and Curare-like agents, 1962, pp. 34-47.

12. Paton, W.D.M. and Waud, D.R.: Neuromuscular blocking agents. Brit. J. Anaes. 34: 251-259, 1962.

13. Waud, D.R.: On the relation between chemical structure and pharmacological activity at the ganglionic and neuromuscular synapses. M. & B. Pharmaceutical Bulletin 11: 86-88, 1961.

14. Parsons, J.A. and Waud, D.R.: Stimulator Controls. J. Physiol. 163: 39-39, 1962.

15. Waud, D.R.: "Cross-Protection" method as a means of differentiating receptors. Nature, London 196: 1107-1108, 1962.

16. Paton, W.D.M. and Waud, D.R.: A quantitative investigation of the relationship between rate of access of a drug to receptor and the rate of onset or offset of action. Arch. exp. Path. Pharmak. 248: 134-143, 1964.

17. Paton, W.D.M. and Waud, D.R.: The margin of safety of neuromuscular transmission. J. Physiol. 191: 59-90, 1967.

18. Waud, D.R.: Iontophoretic application of drugs. J. Appl. Physiol. 23: 128-130, 1967.

19. Waud, D.R.: The rate of action of competitive neuromuscular blocking agents. J. Pharmacol. exp. Ther. 159: 99-116, 1967.

20. Waud, D.R.: On diffusion from a point source. J. Pharmacol. exp. Ther. 159: 123-128, 1968.

21. Thron, C.D. and Waud, D.R.: The rate of action of atropine. J. Pharmacol. exp. Ther. 160: 91-109, 1968.

22. Waud, D.R.: A quantitative model for the effect of a saturable uptake on the slope of dose-response curve. Appendix to publication by Langer, S.Z. and Trendelenburg. J. Pharmacol. exp. Ther. 167: 140-142, 1969.

23. Waud, D.R.: On the measurement of the affinity of partial agonists for receptors. J. Pharmacol. exp. Ther. 170: 117-122, 1969.

24. Waud, B.E. and Waud, D.R.: Calculated kinetics of distribution of nitrous oxide and methoxyflurane during intermittent administration in obstetrics. Anesthesiology 32: 306-316, 1970.

25. Waud, B.E. and Waud, D.R.: On dose-response curves and anesthetics. Anesthesiology 33: 1-4, 1970.

26. Olson, C.B. and Waud, D.R.: On looking at electrical activity of heart muscle. Anesthesiology 33: 520-534, 1970.

27. Waud, D.R. and Waud, B.E.: A technique for intra-arterial injection of drugs. J. Appl. Physiol. 30: 140-141, 1971.

28. Parker, R.B. and Waud, D.R.: Pharmacological estimation of drug-receptor dissociation constants. Statistical evaluation. I. Agonists. J. Pharmacol exp. Ther. 177: 1-12, 1971.

29. Waud, D.R. and Parker, R.B.: Pharmacological estimation of drug-receptor dissociation constants. Statistical evaluation. II. Competitive antagonists. J. Pharmacol. exp. Ther. 177: 13-24, 1971.

30. Waud, B.E. and Waud, D.R.: The relation between tetanic fade and receptor occlusion in the presence of competitive neuromuscular block. Anesthesiology 35: 456-464, 1971.

31. Waud, B.E. and Waud, D.R.: The margin of safety of neuromuscular transmission in the muscle of the diaphragm. Anesthesiology 37: 417-422, 1972.

32. Waud, B.E. and Waud, D.R.: The relation between the response to "train of four" stimulation and receptor occlusion during competitive neuromuscular block. Anesthesiology 37: 413-416, 1972.

33. Waud, D.R.: On biological assays involving quantal responses. J. Pharmacol. exp. Ther. 183: 577-607, 1972.

34. Waud, D.R. and Waud, B.E.: Depolarization block and phase II block at the neuromuscular junction. J. Pharmacol. exp. Ther., in press, 1973.

35. Evans, C.A. and Waud, D.R.: Do maternally administered neuromuscular blocking agents impair fetal movement? Anesthesia and Analgesia 52: 548-552, 1973.

36. Evans, C.A. and Waud, D.R.: A pressor effect of high doses of tubocurarine in the ferret. Pharmacology 10: 32-37, 1973.

37. Waud, B.E., Cheng, M.C. and Waud, D.R.: Comparison of drug-receptor dissociation constants at the mammalian neuromuscular junction in the presence and absence of halothane. J. Pharmacol. exp. Ther., 187: 40-46, 1973.

38. Waud, D.R.: Adsorption isotherm vs. ion-exchange models for the drug-receptor reaction. J. Pharmacol. exp. Ther. 188:520-528, 1974.

39. Waud, B.E. and Waud, D.R.: The effects of diethyl ether, enflurane and isoflurane at the neuromuscular junction. Anesthesiology, in press.

40. Waud, B.E. and Waud, D.R.: The effect of diethyl ether, enflurane and isoflurane on the acetylcholine receptor. Anesthesiology 42:275-280, 1975.

41. Waud, D.R. and Waud, B.E.: *In vitro* measurement of the margin of safety of neuromuscular transmission. Submitted, 1975.

42. Lee Son, S., Waud, B.E., and Waud, D.R.: A comparison of the potencies of a series of barbiturates at the neuromuscular junction and on the central nervous system. J. Pharmacol., in press, 1975.

43. Waud, B.E. and Waud, D.R.: Comparison of the effects of general anesthetics on the end-plate of skeletal muscle. Submitted, 1975.

Invited Reviews

1. Waud, D.R.: On the estimation of receptor occupation by irreversible competitive pharmacological antagonists. Biochem. Pharmacol. 17: 649-653, 1968.

2. Waud, D.R.: Pharmacological Receptors. Pharmacol. Rev. 20: 49-88, 1968.

3. Waud, D.R.: The nature of "depolarization block". Anesthesiology 29: Sept.-Oct., 1968.

4. Waud, D.R. and Waud, B.E.: Agents acting on the neuromuscular junction. In Drill and Hellman's Pharmacology in Medicine, 4th Ed., McGraw-Hill New York, 1971.

5. Waud, D.R.: A review of pharmacological approaches to the acetylcholine receptors at the neuromuscular junction. Ann. N.Y. Acad. Sci. 183: 197-207, 1971.

6. Waud, B.E. and Waud, D.R.: Physiology and Pharmacology of Neuromuscular Blocking Agents. In Muscle Relaxants, Katz, R.L. (ed), Excerpta Medica, Amsterdam, 1973, in press.

7. Waud, D.R.: Analysis of dose-response relationships. In Advances in General and Cellular Pharmacology, Vol. 1, 1974, in press.

8. Waud, D.R.: Analysis of dose-response curves. In Methods in Pharmacology Volume III. Smooth muscle. E.E. Daniel and D.M. Paton Eds. Plenum, New York, in press, 1975.

9. Waud, D.R.: Analysis of dose-response relationships. In Advances in General and Cellular Pharmacology. C.P. Bianchi and T. Narahashi Eds. Plenum, New York, in press, 1975.

Abstracts

A1. Waud, D.R., Kottegoda, S.R. and Krayer, O.: Threshold dose and time course of norepinephrine depletion of the heart by reserpine. Fall Meeting, Amer. Soc. Pharmacol., 1958.

A2. Thron, C.D. and Waud, D.R.: The rate of action of atropine in isolated guinea pig atria. Fed. Proc. 25: 472, 1966.

A3. Waud, D.R.: Rate of action of d-tubocurarine. III. Int. Pharmacol. Cong. Sao Paulo, Brazil, July, 1966, p. 274.

A4. Waud, D.R.: Measurement of receptor occlusion by irreversible competitive blocking agents. Fed. Proc. 26: No. 2, 1967.

A5. Waud, D.R.: Calculation of drug concentrations around a point source. The Pharmacologist 9: No. 2, 1967.

A6. Waud, D.R.: Use of a drift-stabilized operational amplifier to reduce electrolysis during field stimulation. Fed. Proc. 27: No. 2, 714, 1968.

A7. Waud, D.R.: Measurement of the affinity of partial agonists for receptors. The Pharmacologist 10: No. 2, 1968.

A8. Waud, D.R.: A model for the effect of a saturable uptake process on the slope of dose-response curves to sympathamimetic amines. Fed. Proc. 28: No. 2, 674, 1969.

A9. Waud, D.R. and Waud, B.E.: Balance equation for the analysis of uptake and distribution of nitrous oxide. The Pharmacologist 11: 236, 1969.

A10. Waud, B.E. and Waud, D.R.: On estimation of the margin of safety of neuromuscular transmission during recovery from block by a competitive antagonist. Proc. Amer. Soc. Anesthesiologists, 1970.

A11. Parker, R.B. and Waud, D.R.: Factors influencing measurements of affinity constants of muscarinic agonists on intestinal smooth muscle. Fed. Proc. 29: 810, 1970.

A12. Waud, D.R. and Parker, R.B.: Least squares estimation of parameters in hyperbolic and logistic functions. The Pharmacologist 12: 307, 1970.

A13. Waud, B.E. and Waud, D.R.: Depolarization block, a modified outlook. Fed. Proc. 30: 557, 1971.

A14. Waud, D.R. and Waud, B.E.: Some cable properties of interest in connection with extracellular recording of the electrical action of depolarizing agents on the neuromsucular junction. The Pharmacologist 13: 265, 1971.

Abstracts continued

A15. Evans, C.A. and Waud, D.R.: On use of neuromuscular blocking drugs to inhibit fetal movement. Program and Abstracts, 50th General Session of the International Association for Dental Research and the North American Division of IADR (in press).

A16. Waud, B.E. and Waud, D.R.: The margin of safety of neuromuscular transmission in the diaphragm. Proc. Amer. Soc. Anesthesiologists, 1971.

A17. Waud, D.R.: Statistical evaluation of quantal biological assays. Fed. Proc., 1972.

A18. Waud, B.E. and Waud, D.R.: Assessment of recovery from competitive neuromuscular block. V. Int. Cong. Pharmacol., 1972.

A19. Waud, B.E., Cheng, M.C. and Waud, D.R.: Does halothane alter the acetylcholine receptor at the neuromuscular junction. Proc. Amer. Soc. Anesthesiologists, 1972.

A20. Waud, D.R.: Comparison of conventional ion-exchange models for the drug-receptor interaction. Fed. Proc. 31:799, 1973.

A21. Waud, D.R.: Statistical analysis of dose-response curves ——— obtaining an error of estimate of the parameters. Pharmacologist 15:218, 1973.

A22. Waud, B.E. and Waud, D.R.: Studies on the action of diethyl ether, enflurane and isoflurane at the neuromuscular junction. Proc. Amer. Soc. Anesthesiologists, 1973.

A23. Lee Son, S., Waud, B.E. and Waud, D.R.: The effects of barbiturates on depolarization at the neuromuscular junction. Fed. Proc. 33:520, 1974.

A24. Waud, D.R. and Waud, B.E.: Measurement of the margin of safety of neuromuscular transmission *in vitro*. Pharmacologist 16:233, 1974.

A25. Waud, B.E. and Waud, D.R.: Comparison of the effects of general anesthetics on the end-plave of mammalian skeletal muscle. Proc. Amer. Soc. Anesthesiologists, 1974.

A26. Waud, B.E., Lee-Son, S. and Waud, D.R.: Observations on the action of volatile anesthetics and barbiturates at the neuromuscular junction. Fed. Proc. 34:479, 1975.

A27. Waud, D.R.: Iterative statistical estimation of the parameters of dose response curves. Pharmacologist 17: , 1975.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. William S. Webster, Chairman
Department of Animal Medicine Date June 9, 1975

To Ms. Muriel Sawyer

Subject Annual Report Material

I. Additions to Bibliography

Webster, W. S., Bishop, S. P., and Geer, J. C.: Experimental aortic intimal thickening. I. Morphology and source of intimal cells. Am. J. Path. 76: 245-264. 1974.

Webster, W. S., Bishop, S. P., and Geer, J. C.: Experimental aortic intimal thickening. II. Endothelialization and permeability. Am. J. Path. 76: 265-284. 1974.

Geer, J. C. and Webster, W. S.: Morphology of mesenchymal elements of normal artery, fatty streaks, and plaques. Arterial Mesenchyme and Arteriosclerosis. Edited by W. D. Wagner and T. B. Clarkson, N. Y., N. Y.: Plenum Publishing Corp., 1974, pp. 9-33.

II. Current Research Grants

A. Studies in progress on pathogenesis of reversible/irreversible shock with support from grant of D. G. Majno, M. D., entitled "Studies in Cardiovascular Pathology," NIH 1RO1HLI6952.

B. "Characterization of Microvascular Endothelium in Shock" - American Heart Association, Massachusetts Affiliate. Approved without funding, May 1975.

III. Professional Activities

A. Teaching

1. Development of a graduate-level course on the use of laboratory animals in biomedical research and methods of animal experimentation.

2. Lecture on restraint and anesthesia of animals for biomedical engineering students, Worcester Polytechnic Institute.

3. Informal instruction in basic animal care and husbandry for animal resource technicians.

B. Service

1. Organization and program development of the expanding centralized teaching and research animal resource, for the Medical Center faculty and students.

2. Committee Work - UMass. Medical School

   A. Animal Care Advisory Committee - Chairman

   B. Infectious Disease and Biohazards Committee - Member

   C. Radiation Safety Committee - Member

   D. Austerity Budget Subcommittee - Member

3. Outside Activities

   A. American Association for Accreditation of Laboratory Animal Care

      1. Consultantship - Site visits to several biomedical institutions for purposes of evaluating research animal care programs.

      2. Council Member - 1975-1979.

W. S. W.

WSW:CMT

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From G. E. Wright Date June 16, 1975

To Dean's Office

Subject Annual Report Material

1. Additions to Bibliography

   a. Publication

      G.E. Wright and N.C. Brown, "Synthesis of 6-(Phenylhydrazino)-uracils and their Inhibition of a Replication-Specific Deoxyribonucleic Acid Polymerase," J. Med. Chem., 17, 1277 (1974)

   b. Abstracts

      G.E. Wright, J. Gambino and N.C. Brown, "6-(Arylhydrazino)-uracils: Further Syntheses and Inhibitory Actions on a Replication-Specific DNA Polymerase," American CHemical Society National Meeting, Philadelphia, April 1975.

      N.C. Brown and G.E. Wright, "The Mechanism of Inhibition of B. subtilis DNA Polymerase III by Arylhydrazinopyrimidines: Novel Base-pairing Properties of 2-thio Derivatives," Sixth International Congress of Pharmacology, Helsinki, July 1975.

2. Current Research Grant

   "Structure of Novel Inhibitors of a DNA Replicase," National Institutes of Health, 6/74-5/77.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MEMORANDUM

From Dr. Yankauer, M.D. Date June 3, 1975

To Muriel Sawyer

Subject Annual Report Material 1974-75

BIBLIOGRAPHY ADDITIONS

Yankauer, A. Pediatric Sociale (book review)
Am. J. Pub. Health 64:920, 1974.

Yankauer, A. Early and Periodic Screening Diagnosis and Treatment
(book Review) Am. J. Dis. Child, May 1974.

RESEARCH GRANTS

Sponsor	
Tri-State Reional Medical Program	Training Nurse Practitioners to Serve The Physically and Mentally Retarded in Massachusetts

PROFESSIONAL ACTIVITIES

1. Consultant to Belchertown State School
2. Consultant to Pediatric Nurse Associate Program, Northeastern University, School of Nursing
3. Senior Lecturer, Harvard School of Public Health
4. Consultant to Univ. Valle (Cali, Colombia) Research Program (Rockefeller Foundation)

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